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PRESSURE DISTRIBUTION OVER MODELS OF DOME AND ARCH STRUCTURES (U)

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U. S. NAVAL ORDNANCE LABORATORY  
WHITE OAK, MARYLAND

NAVORD Report 6699

Aerodynamics Research Report 71

**PRESSURE DISTRIBUTION OVER MODELS OF DOME AND  
ARCH STRUCTURES**

Prepared by

Howard L. Galloway Jr.

**ABSTRACT:** This report presents the results of an investigation in the NOL Supersonic Tunnel No. 2 to measure the static pressure distribution over dome shaped buildings and arch shaped buildings at Mach numbers from 0.401 to 1.75. These data were obtained to provide information on instantaneous airloads acting on protective structures exposed to air blasts.

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19 April 1960

The purpose of this investigation was to obtain the pressure distribution data over dome shaped buildings and arch shaped buildings. The wind-tunnel test was performed at the request of the Defense Atomic Support Agency through the Explosions Research Department of the Naval Ordnance Laboratory by WTR 454 (reference (a)), under Task Number NOL 181.

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JOHN A. QUENSE', Acting  
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Commander

R. KENNETH LOBB  
By direction

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PRESSURE DISTRIBUTION OVER MODELS OF DOME AND  
ARCH STRUCTURES

INTRODUCTION

1. The domes and arches are economical, above-ground, protective structures sponsored by the Air Force Project 3.6 and Federal Civil Defense Administration Project 30.1 in Operation Plumobob.
2. This report gives the results of a wind-tunnel investigation performed to determine the pressure distribution over these structures at Mach numbers from 0.401 to 1.75.
3. The objective of this test was to provide pressure measurements for the investigation of air-blast loading of above-ground domes and arches.

AERODYNAMIC SYMBOLS

M	Mach number
p	pressure measured at orifice (psi)
p <sub>o</sub>	supply pressure (psi)
p <sub>∞</sub>	free-stream static pressure (psi)
q	dynamic pressure (psi)
Re	Reynolds number based on model length and free-stream conditions
C <sub>p</sub>	pressure coefficient = $\frac{p - p_{\infty}}{q}$

DESCRIPTION OF THE MODELS

4. Three domes (spherical segments with included angles of 60°, 90°, and 120° and a chord length of 2.61 inches) and two arches (cylindrical segments with included angles of 120° and 180° and a chord length of 1.50 inches) were mounted successively on a flat plate (Figure 1). The forward starboard and the after port quadrants of the dome contained the pressure orifices (Figures 2 - 4 and Tables 1 - 3). On the arches a row of pressure orifices extended from forward port to after starboard at an angle of 30° to flow direction (Figures 5, 6, and Tables 4 - 5). The flat plate spanned the test section of the supersonic nozzles from wall to wall along the horizontal center plane of the nozzle. Along the centerline of this plate were 6 static pressure orifices (Figure 1).



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### INSTRUMENTATION AND DATA REDUCTION

5. Local static pressures were measured on the model with a 108 tube, one atmosphere, mercury manometer bank. The levels of the mercury columns were recorded on a photographic film. Pressures were read from the film records using a Universal Telereader which has a reading sensitivity of 0.064 mm. The test data are accurate to 0.5 mm Hg. Pressure measurements were made in a range of 45 mm Hg. to 710 mm Hg. The data were reduced to coefficient form using IBM 650 machines.

### TEST CONDITIONS

6. The test condition outline is presented in Table 6 and Table 7.

### RESULTS

7. The tabulated IBM data appear at the end of this report. Column I lists blow number. Column II lists pressure orifice tap number. Orifice numbers 81 - 86 are located along the center line of the flat plate (Figure 1). Column III lists the ratio of the local static pressure to the supply pressure. Column IV lists the ratio of local static pressure to the free-stream static pressure. Column V lists the pressure coefficient,  $C_p$ .

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REFERENCE

- (a) Slifer, Luther W. Jr., "Wind-Tunnel Request Number 454,"  
Unclass., (1957)



Table 2 - Orifice Locations (90° Dome)

Orifice Number	$\alpha$	$\beta$	Orifice Number	$\alpha$	$\beta$	Orifice Number	$\alpha$	$\beta$	Orifice Number	$\alpha$	$\beta$
1	39°32'	89°45'	15	21°48'	26°59'	29	9°41'	0°11'	43	36°34'	212°56'
2	40°58'	74°8'	16	31°40'	18°40'	30	14°53'	359°46'	44	27°18'	224°46'
3	34°51'	30°0'	17	41°32'	14°40'	31	19°10'	359°37'	45	21°51'	242°37'
4	29°45'	89°56'	18	5°0'	88°35'	32	25°14'	359°34'	46	19°16'	269°43'
5	31°41'	70°10'	19	39°39'	179°43'	33	29°45'	359°41'	47	25°10'	269°56'
6	36°38'	56°11'	20	34°52'	179°47'	34	34°52'	359°47'	48	36°38'	236°11'
7	25°10'	89°56'	21	29°45'	179°41'	35	39°39'	359°43'	49	31°41'	250°10'
8	19°0'	89°43'	22	25°14'	179°34'	36	5°0'	268°35'	50	29°45'	269°50'
9	21°51'	62°37'	23	19°10'	179°37'	37	41°32'	194°40'	51	34°51'	270°0'
10	27°18'	44°46'	24	14°53'	179°46'	38	31°40'	198°40'	52	40°58'	254°8'
11	36°34'	32°56'	25	9°51'	180°11'	39	21°48'	206°59'	53	39°32'	269°45'
12	15°2'	89°31'	26	5°4'	180°0'	40	14°2'	224°33'			
13	9°59'	89°11'	27	0°0'	0°0'	41	9°53'	269°17'			
14	14°2'	44°33'	28	5°4'	0°0'	42	15°2'	269°31'			

Table 1 - Orifice Locations (60° Dime)

Orifice Number	$\alpha$	$\beta$	Orifice Number	$\alpha$	$\beta$	Orifice Number	$\alpha$	$\beta$	Orifice Number	$\alpha$	$\beta$
1	25°11'	89°54'	8	5°5'	89°14'	15	5°2'	0°15'	22	14°25'	225°11'
2	20°17'	89°52'	9	25°6'	180°9'	16	10°6'	0°15'	23	10°4'	269°53'
3	22°37'	82°51'	10	20°10'	180°8'	17	15°17'	359°55'	24	15°11'	269°45'
4	15°11'	89°45'	11	15°17'	179°55'	18	20°10'	0°8'	25	22°37'	242°51'
5	10°4'	89°33'	12	10°6'	180°15'	19	25°6'	0°9'	26	20°17'	269°52'
6	14°25'	45°11'	13	5°2'	180°15'	20	5°5'	269°14'	27	25°11'	269°54'
7	22°32'	27°8'	14	0°0'	0°0'	21	22°32'	207°8'			

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Table 4 - Orifice Locations (180° Arch)

Orifice Number	+a Degrees	Orifice Number	-a Degrees
1	84° 27'	12	11° 8'
2	79° 57'	13	20° 41'
3	74° 30'	14	30° 11'
4	69° 49'	15	40° 5'
5	59° 30'	16	50° 11'
6	49° 41'	17	60° 3'
7	39° 36'	18	69° 54'
8	29° 34'	19	74° 54'
9	19° 48'	20	79° 52'
10	10° 18'	21	84° 46'
11	0° 0'		

Table 5 - Orifice Locations (120° Arch)

Orifice Number	+a Degrees	Orifice Number	-a Degrees
1	50° 24'	7	10° 41'
2	40° 21'	8	20° 20'
3	30° 39'	9	30° 24'
4	20° 32'	10	40° 21'
5	10° 41'	11	50° 19'
6	0° 0'		

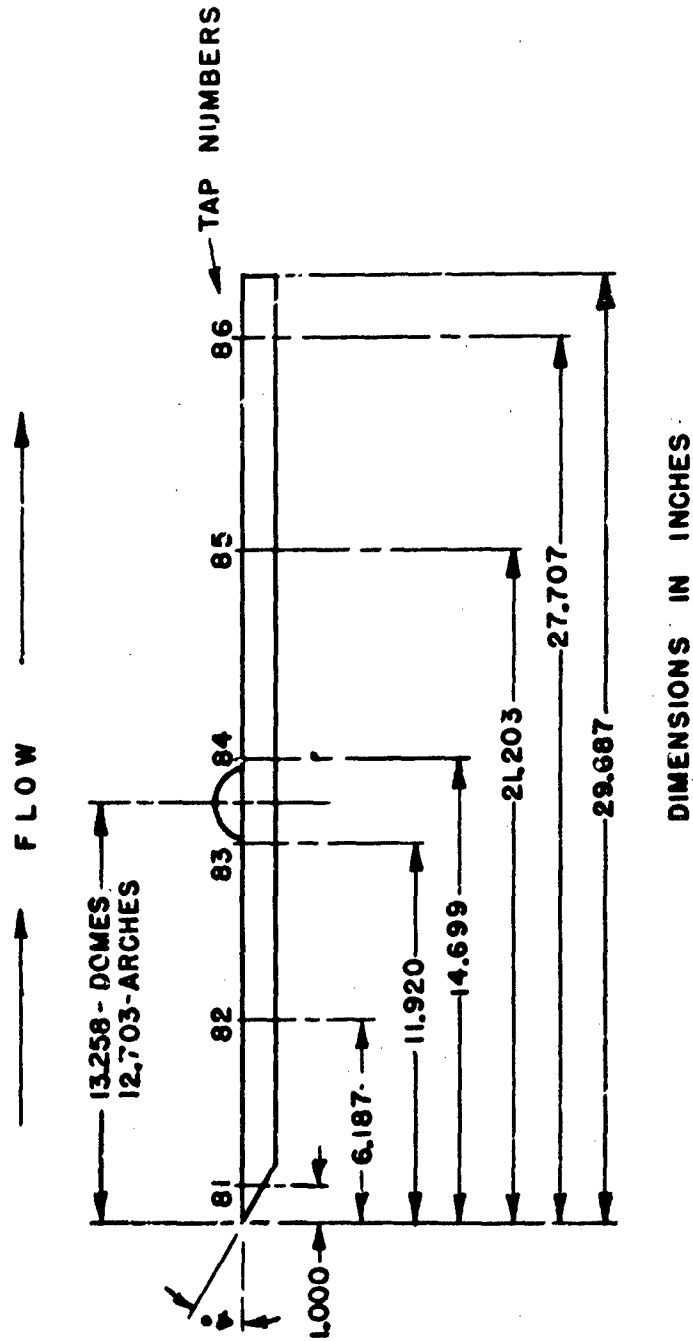
TABLE 6 - DOME TEST OUTLINE

120° Dome				90° Dome				60° Dome			
Blow Number	P <sub>o</sub> mm Hg.	M	Re x 10 <sup>-6</sup>	Blow Number	P <sub>o</sub> mm Hg.	M	Re x 10 <sup>-6</sup>	Blow Number	P <sub>o</sub> mm Hg.	M	Re x 10 <sup>-6</sup>
1	757	1.18	5.34	28	751	1.57	4.98	48	747	0.912	4.90
2	757	1.18	5.34	29	751	1.57	4.98	49	748	0.799	4.71
3	757	1.18	5.34	32	751	1.57	4.91	50	749	0.703	4.54
4	757	1.18	5.34	33	751	1.57	4.91	51	750	0.586	4.22
7	754	1.75	4.76	34	752	1.75	4.69	52	752	0.503	3.95
9	754	1.75	4.75	35	752	1.75	4.67	56	752	1.75	4.74
10	753	0.902	4.99	38	748	1.18	5.15	58	751	1.18	5.15
12	752	0.796	4.77	39	748	1.18	5.13	59	751	1.18	5.14
13	752	0.702	4.60	41	747	0.896	4.84				
14	752	0.588	4.31	42	748	0.791	4.88				
15	752	0.502	3.69	43	748	0.696	4.51				
16	752	0.401	3.48	44	748	0.581	4.20				
18	748	0.789	4.71	45	750	0.497	3.91				
20	752	0.702	4.57								
21	752	0.899	4.93								
22	752	0.511	4.31								
23	753	1.57	5.09								
24	754	1.57	5.08								

TABLE 7 - ARCH TEST OUTLINE

180° Arch				120° Arch			
Blow Number	P <sub>o</sub> mm Hg.	M	Re x 10 <sup>-6</sup>	Blow Number	P <sub>o</sub> mm Hg.	M	Re x 10 <sup>-6</sup>
67	753	1.75	4.50	77	749	0.815	4.57
68	753	1.75	4.50	78	750	0.716	4.40
70	749	0.805	4.53	79	751	0.596	4.12
71	750	0.708	4.37	80	753	0.511	3.83
72	752	0.599	4.13	81	754	0.413	3.36
73	753	0.509	3.82	82	754	0.413	3.36
74	754	0.412	3.36				
75	754	0.412	3.36				





DIMENSIONS IN INCHES

FIG 1 SIDE VIEW OF THE GROUND PLANE SHOWING  
MODEL AND PRESSURE TAP LOCATIONS

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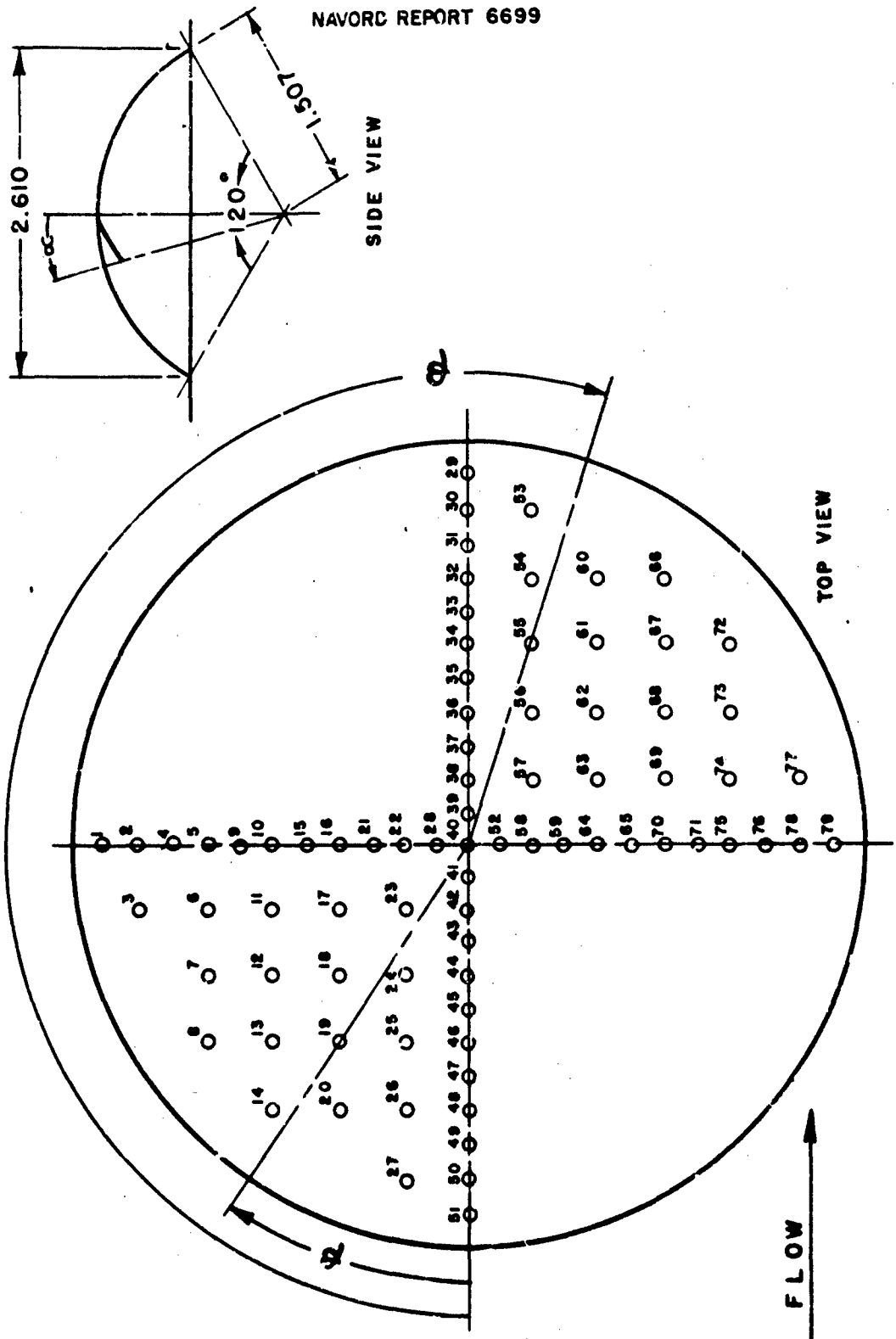


FIG. 2. REFERENCE ORIGIN: LOCATION FOR INNOVATION

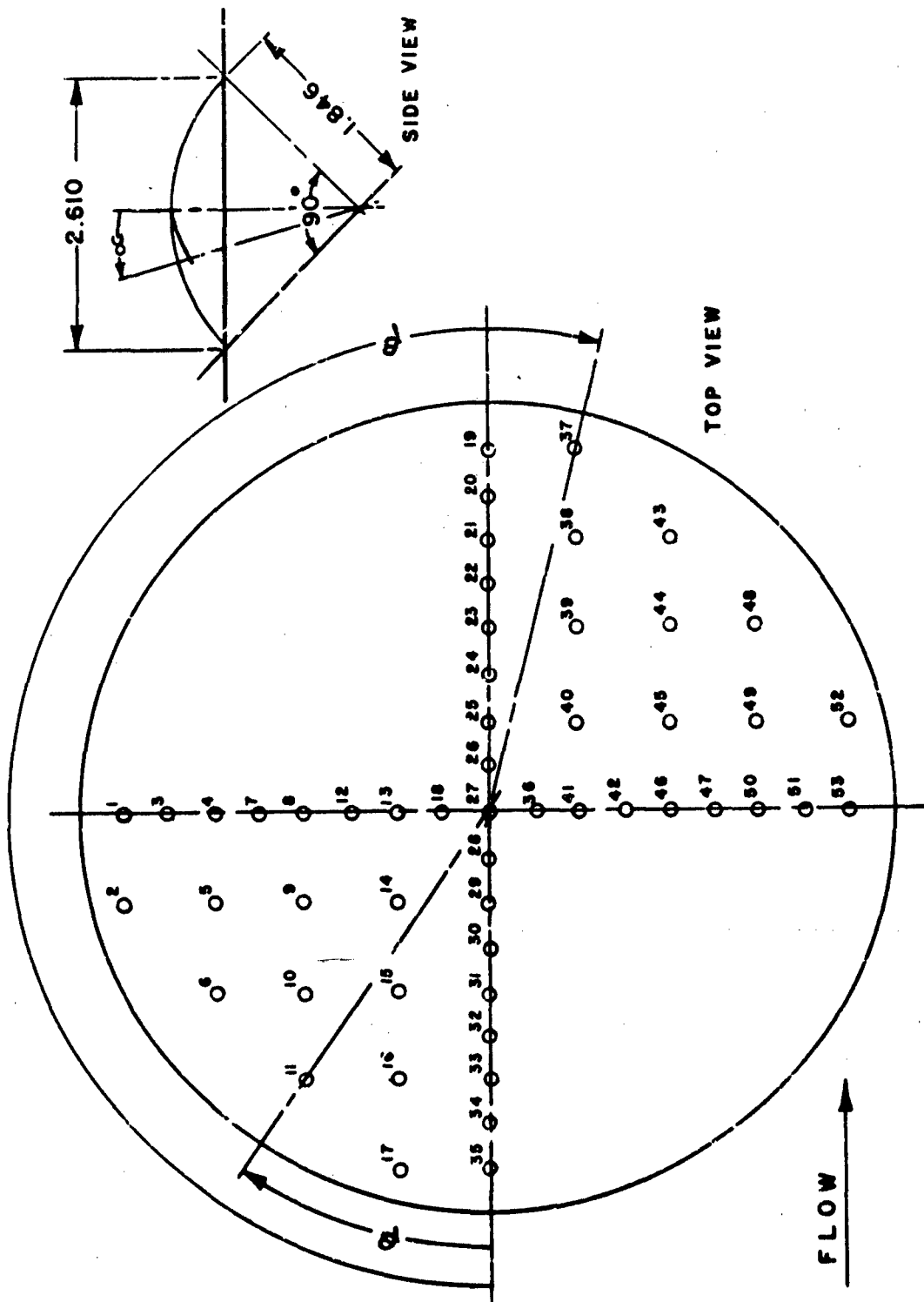


FIG. 7. PROPOSED ADJERRE LOCATION FOR 90° NMME

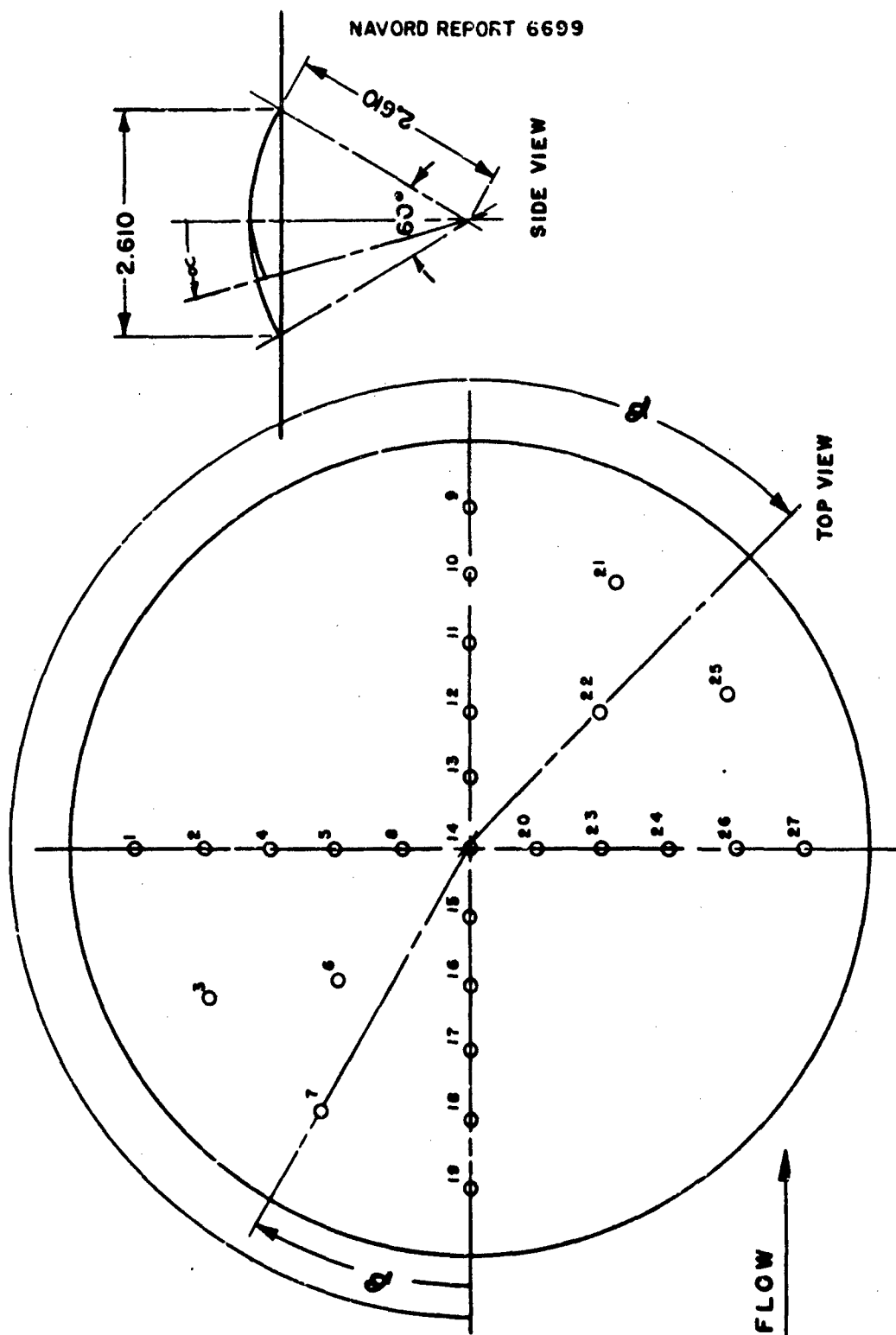


FIG. 4 PRESSURE ORIFICE LOCATION FOR 60° DOME

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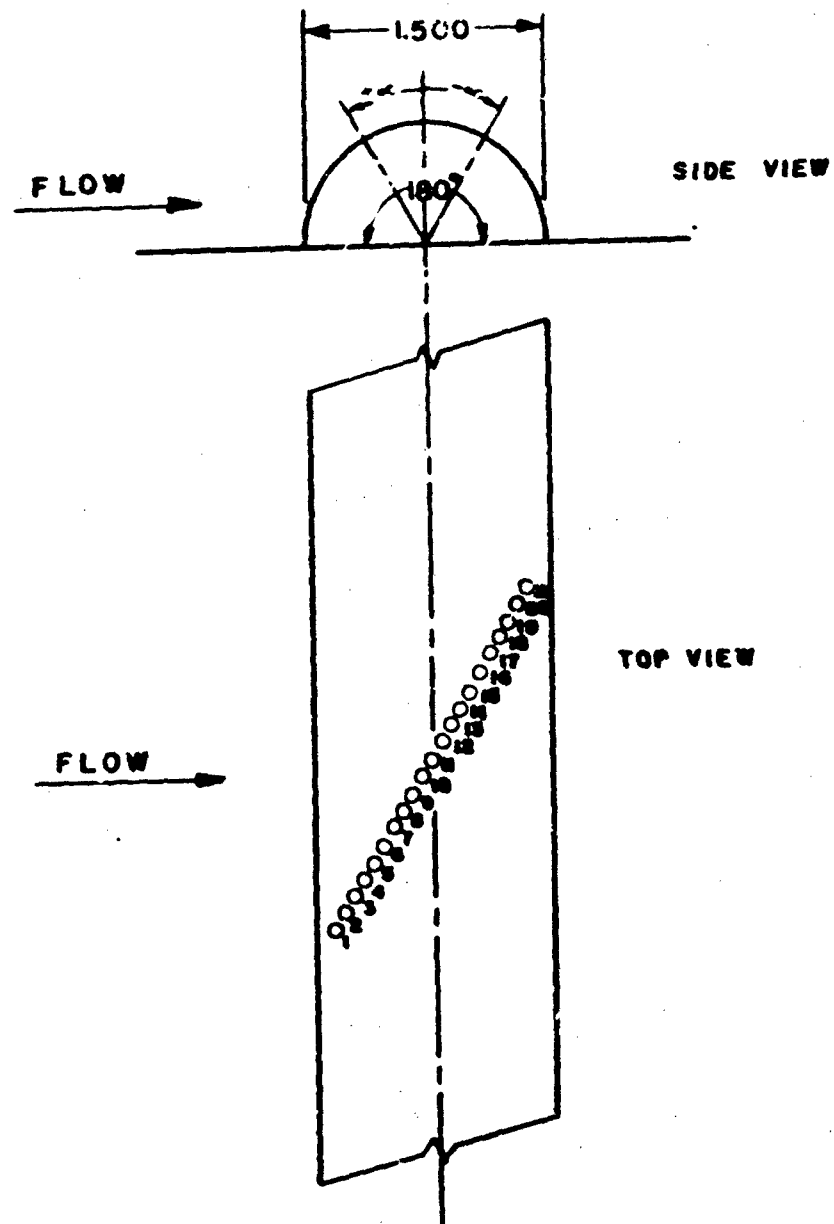


FIG. 5 PRESSURE ORIFICE LOCATION FOR 180° ARCH

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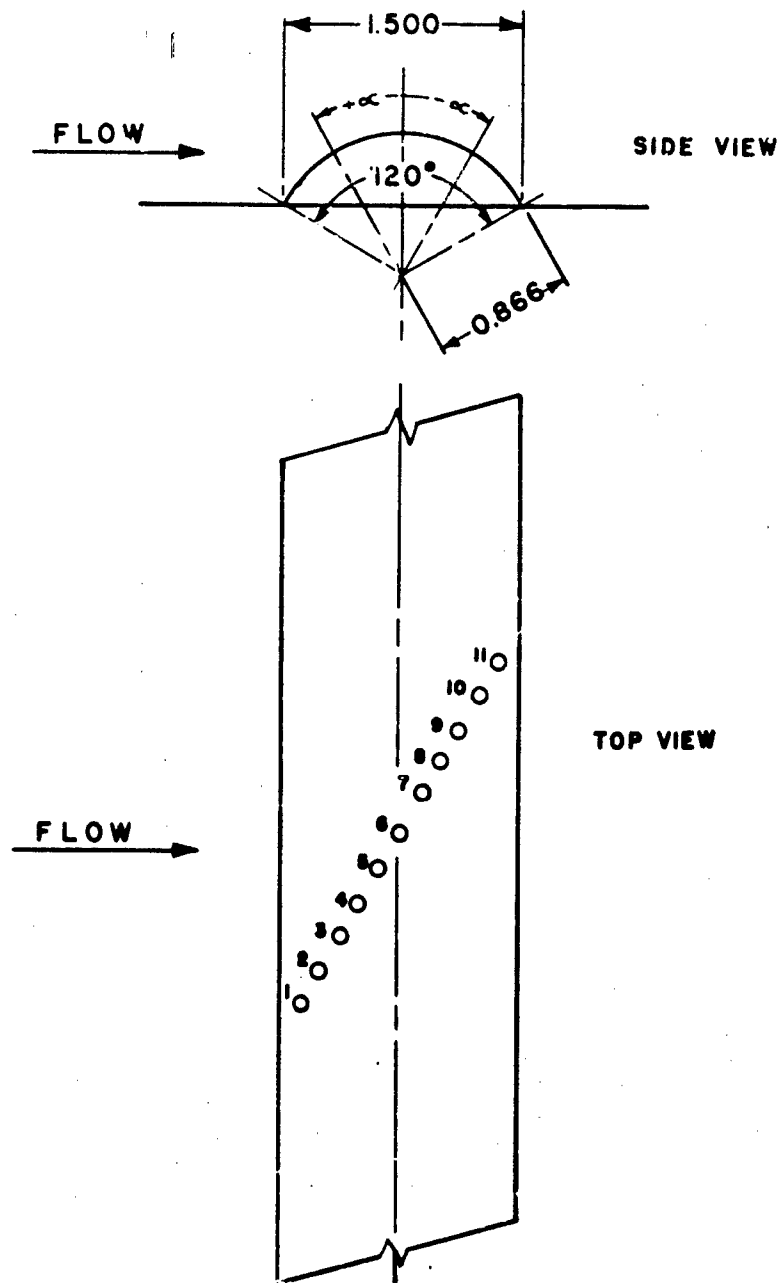


FIG.6 PRESSURE ORIFICE LOCATION FOR 120° ARCH

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APPENDIX

Tabulated Data

NOTE:

1. The symbols used in the column headings are defined on Page 1.
2. Runs are tabulated in sequence by Run Number.
3. Column headings and decimal points are shown on Run 1 of the tabulated data and are the same for all runs.

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Blow No.	*Tap No.	$P/P_0$	$P/P_\infty$	$C_p$
1	1	.29561	.69849	.30935-
1	2	.25818	.61003	.40010-
1	3	.35089	.82909	.17535-
1	4	.24034	.56789	.44334-
1	5	.22939	.54202	.46988-
1	6	.32917	.77777	.22801-
1	7	.45843	1.08320	.08536
1	8	.50311	1.18876	.19367
1	9	.22215	.52491	.48743-
1	10	.21915	.51782	.49471-
1	11	.31628	.74731	.25926-
1	12	.45031	1.06400	.06567
1	13	.59353	1.40240	.41285
1	14	.56315	1.33063	.33922
1	15	.21650	.51156	.50113-
1	16	.21544	.50905	.50370-
1	17	.31221	.73771	.26910-
1	18	.44024	1.04022	.04127
1	19	.60359	1.42618	.43725
1	20	.70654	1.66944	.68683
1	21	.21544	.50905	.50370-
1	22	.21474	.50738	.50541-
1	23	.30727	.72603	.28109-
1	24	.43124	1.01894	.01943
1	25	.58911	1.39197	.40215
1	26	.76129	1.79879	.81954
1	27	.67617	1.59767	.61320
1	28	.21791	.51489	.49771-
1	29	.22039	.52074	.49171-
1	30	.20838	.49236	.52082-
1	31	.20809	.49153	.52168-
1	32	.20891	.49361	.51954-
1	33	.20926	.49445	.51868-
1	34	.20944	.49487	.51820-
1	35	.20903	.49391	.51924-
1	36	.20515	.48472	.52866-
1	37	.19896	.47011	.54365-
1	38	.19843	.46886	.54494-
1	39	.18324	.43295	.58178-
1	40	.21504	.50810	.51467-
1	41	.26310	.62167	.38816-
1	42	.30975	.73159	.27508-
1	43	.36788	.86925	.13415-
1	44	.43998	1.03959	.04062
1	45	.50695	1.19783	.20296
1	46	.59353	1.40240	.41286

\* Pressure Orifice Tap Number



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1	47	.68506	1.61867	.63474
1	48	.77323	1.82701	.84849
1	49	.80556	1.90341	.92688
1	50	.73276	1.73140	.75040
1	51	.61862	1.46169	.47368
1	52	.21610	.51061	.50210-
1	53	.20974	.49558	.51752-
1	54	.20691	.48890	.52438-
1	55	.20780	.49099	.52224-
1	56	.20232	.47804	.53551-
1	57	.19984	.47220	.54151-
1	58	.21681	.51228	.50039-
1	59	.21751	.51395	.49868-
1	60	.20585	.48639	.52695-
1	61	.20550	.48556	.52780-
1	62	.20055	.47387	.53980-
1	63	.19684	.46510	.54879-
1	64	.21769	.51437	.49825-
1	65	.22105	.52230	.49011-
1	66	.20780	.49099	.52224-
1	67	.20373	.48138	.53209-
1	68	.19596	.46301	.55094-
1	69	.18716	.44222	.57227-
1	70	.22395	.52916	.48308-
1	71	.23969	.56636	.44491-
1	72	.21121	.49906	.51395-
1	73	.19211	.45392	.56027-
1	74	.17017	.40209	.61344-
1	75	.23333	.55131	.46035-
1	76	.24217	.57221	.43891-
1	77	.19918	.47064	.54311-
1	78	.25986	.61400	.39602-
1	79	.29612	.69969	.30811-
1	81	.32443	.76656	.23950-
1	82	.44825	1.05919	.06068
1	83	.65027	1.53647	.55041
1	84	.23846	.56343	.44791-
1	85	.20962	.49530	.51781-
1	86	.42420	1.00230	.00736

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2	1	.29597	.69932	.30349-
2	2	.25747	.60836	.40181-
2	3	.35195	.83159	.17278-
2	4	.24087	.56914	.44206-
2	5	.22957	.54243	.46945-
2	6	.33040	.78069	.22501-
2	7	.45914	1.08487	.08707
2	8	.50470	1.19252	.19752
2	9	.22198	.52449	.48786-
2	10	.21862	.51656	.49600-
2	11	.31681	.74856	.25797-
2	12	.45066	1.06484	.06652
2	13	.59582	1.40782	.41842
2	14	.56651	1.33856	.34735
2	15	.21580	.50989	.50284-
2	16	.21580	.50989	.50284-
2	17	.31257	.73854	.26825-
2	18	.43971	1.03897	.03998
2	19	.60606	1.43202	.44325
2	20	.70866	1.67445	.69197
2	21	.21509	.50822	.50456-
2	22	.21474	.50738	.50541-
2	23	.30745	.72644	.28066-
2	24	.43212	1.02103	.02157
2	25	.59017	1.39447	.40472
2	26	.76164	1.79963	.82040
2	27	.67723	1.60018	.61577
2	28	.21791	.51489	.49771-
2	29	.22039	.52074	.49171-
2	30	.20838	.49236	.52082-
2	31	.20803	.49153	.52168-
2	32	.20891	.49361	.51954-
2	33	.20944	.49487	.51826-
2	34	.20961	.49528	.51783-
2	35	.20850	.49266	.52052-
2	36	.20426	.48264	.53080-
2	37	.19829	.46844	.54537-
2	38	.19825	.46844	.54337-
2	39	.18361	.43337	.58135-
2	40	.21451	.50685	.50596-
2	41	.26222	.61958	.39030-
2	42	.31010	.73272	.27422-
2	43	.36771	.86883	.13458-
2	44	.43927	1.03792	.03891
2	45	.50783	1.19991	.20511
2	46	.59194	1.39865	.40900

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2	47	.68576	1.62034	.63646
2	48	.77257	1.32534	.84678
2	49	.86291	1.89715	.92045
2	50	.73011	1.72514	.74397
2	51	.61667	1.45710	.46897
2	52	.21522	.50857	.50424-
2	53	.20850	.49266	.52052-
2	54	.20674	.48848	.52481-
2	55	.20797	.49140	.52181-
2	56	.20214	.47763	.53594-
2	57	.20002	.47262	.54108-
2	58	.21645	.51145	.50125-
2	59	.21698	.51270	.49996-
2	60	.20621	.48723	.52609-
2	61	.20497	.48431	.52909-
2	62	.20073	.47429	.53937-
2	63	.19684	.46510	.54879-
2	64	.21734	.51353	.49910-
2	65	.22052	.52105	.49139-
2	66	.20744	.49015	.52309-
2	67	.20338	.48055	.53294-
2	68	.19649	.46427	.54965-
2	69	.18733	.44263	.57184-
2	70	.22289	.52665	.48565-
2	71	.23863	.56385	.44746-
2	72	.21033	.49657	.51610-
2	73	.19140	.45225	.56198-
2	74	.17035	.40251	.61301-
2	75	.23226	.54880	.46292-
2	76	.24093	.56928	.44191-
2	77	.19865	.46939	.54440-
2	78	.25844	.61066	.39945-
2	79	.29542	.69802	.30983-
2	81	.32390	.76531	.24079-
2	82	.44666	1.05539	.25682
2	83	.64673	1.52811	.54183
2	84	.23722	.58050	.45091-
2	85	.20821	.49196	.5124-
2	86	.42260	.99854	.00150-

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3	1	.29632	.70016	.30763-
3	2	.25883	.61170	.39839-
3	3	.35230	.83243	.17193-
3	4	.24087	.56914	.44206-
3	5	.22957	.54243	.46945-
3	6	.33023	.78027	.22544-
3	7	.45879	1.08403	.08622
3	8	.50223	1.18668	.19153
3	9	.22286	.52658	.48572-
3	10	.21915	.51782	.49471-
3	11	.31716	.74939	.25712-
3	12	.45119	1.06609	.06781
3	13	.59405	1.40365	.41414
3	14	.55874	1.32020	.32852
3	15	.21650	.51156	.50113-
3	16	.21632	.51114	.50156-
3	17	.31292	.73938	.26739-
3	18	.44077	1.04147	.04255
3	19	.60642	1.43286	.44410
3	20	.70531	1.66652	.68384
3	21	.21615	.51072	.50199-
3	22	.21580	.50989	.50284-
3	23	.30798	.72770	.27938-
3	24	.43336	1.02395	.02457
3	25	.59088	1.39614	.40643
3	26	.76005	1.79587	.81655
3	27	.66540	1.57222	.58709
3	28	.21862	.51656	.49600-
3	29	.22074	.52157	.49086-
3	30	.20838	.49236	.52082-
3	31	.20785	.49111	.52211-
3	32	.20873	.49320	.51997-
3	33	.20961	.49528	.51783-
3	34	.20979	.49570	.51740-
3	35	.20868	.49307	.52009-
3	36	.20479	.48389	.52952-
3	37	.19878	.46969	.54408-
3	38	.19808	.46802	.53580-
3	39	.18324	.43295	.58178-
3	40	.21451	.50685	.50596-
3	41	.26222	.61950	.39030-
3	42	.31046	.73356	.27336-
3	43	.36859	.87092	.13244-
3	44	.43998	1.03959	.04062
3	45	.50924	1.20325	.20859
3	46	.59423	1.40407	.41457

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3	47	.68665	1.62243	.63860
3	48	.77181	1.82367	.84506
3	49	.79461	1.87753	.90032
3	50	.71739	1.69507	.71313
3	51	.70976	.94020	.63263
3	52	.21592	.51019	.50253
3	53	.20850	.49266	.52052
3	54	.20603	.48681	.52652
3	55	.20709	.48932	.52395
3	56	.20197	.47721	.53637
3	57	.19914	.47053	.54323
3	58	.21628	.51103	.50167
3	59	.21734	.51353	.49910
3	60	.20515	.48472	.52866
3	61	.20497	.48431	.52909
3	62	.20037	.47345	.54023
3	63	.19684	.46510	.54879
3	64	.21734	.51353	.49910
3	65	.22087	.52188	.49054
3	66	.20709	.48932	.52395
3	67	.20285	.47930	.53423
3	68	.19631	.46385	.55008
3	69	.18804	.44431	.57013
3	70	.22289	.52665	.48565
3	71	.41747	.98642	.61993
3	72	.20998	.49614	.51695
3	73	.19052	.45016	.56413
3	74	.17017	.40209	.61344
3	75	.23315	.55089	.46078
3	76	.24164	.57095	.44019
3	77	.19989	.47231	.54140
3	78	.26039	.61526	.39474
3	79	.29736	.70261	.30511
3	81	.32089	.75821	.24808
3	82	.44684	1.05580	.05723
3	83	.64425	1.52226	.53583
3	84	.23881	.56427	.44705
3	85	.20396	.48192	.5153
3	86	.42950	1.01484	.01523

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4	1	.29579	.69890	.30892-
4	2	.25812	.61003	.40010-
4	3	.35089	.82909	.17535-
4	4	.24016	.56747	.44377-
4	5	.22922	.54160	.47031-
4	6	.32681	.77693	.22886-
4	7	.45808	1.08236	.08450
4	8	.50081	1.18334	.18810
4	9	.22162	.52366	.48872-
4	10	.21827	.51573	.49685-
4	11	.31575	.74605	.26054-
4	12	.45084	1.06526	.06695
4	13	.59476	1.40532	.41585
4	14	.55944	1.32187	.33023
4	15	.21580	.50989	.50284-
4	16	.21527	.50864	.50413-
4	17	.31098	.73479	.27210-
4	18	.44024	1.04022	.04127
4	19	.60659	1.43328	.44453
4	20	.70372	1.66277	.67998
4	21	.21544	.50905	.50370-
4	22	.21474	.50738	.50541-
4	23	.30692	.72519	.28195-
4	24	.43194	1.02061	.02114
4	25	.58999	1.39405	.40429
4	26	.75899	1.79337	.81398
4	27	.66434	1.56972	.58452
4	28	.21791	.51489	.49771-
4	29	.22003	.51990	.49257-
4	30	.20820	.49195	.52125-
4	31	.20767	.49069	.52254-
4	32	.20873	.49320	.51997-
4	33	.20944	.49487	.51876-
4	34	.20926	.49445	.51868-
4	35	.20992	.49600	.51710-
4	36	.20568	.48598	.52738-
4	37	.19914	.47053	.54323-
4	38	.19931	.47095	.5280-
4	39	.18412	.43504	.51963-
4	40	.21486	.50769	.50510-
4	41	.26310	.62167	.38816-
4	42	.31099	.73481	.27208-
4	43	.36824	.87008	.13329-
4	44	.44068	1.04126	.04233
4	45	.50977	1.20451	.20982
4	46	.59476	1.40533	.41586

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4	47	.68735	1.62410	.64031
4	48	.77305	1.82659	.84806
4	49	.79585	1.88045	.90332
4	50	.71739	1.69507	.71313
4	51	<del>.41452</del>	<del>.97947</del>	<del>.02106</del>
4	52	.21645	.51145	.50125-
4	53	.20956	.49516	.51795-
4	54	.20674	.48848	.52481-
4	55	.20780	.49099	.52224-
4	56	.20267	.47888	.53466-
4	57	.19984	.47220	.54151-
4	58	.21698	.51270	.49996-
4	59	.21769	.51437	.49825-
4	60	.20550	.48556	.52780-
4	61	.20532	.48514	.52823-
4	62	.20126	.47554	.53808-
4	63	.19719	.46594	.54794-
4	64	.21787	.51479	.49782-
4	65	.22087	.52188	.49054-
4	66	.20762	.49057	.52266-
4	67	.20356	.48097	.53252-
4	68	.19666	.46468	.54922-
4	69	.18857	.44556	.56884-
4	70	.22236	.52539	.48694-
4	71	<del>.42030</del>	<del>.99911</del>	<del>.00707</del>
4	72	.21086	.49823	.51481-
4	73	.19034	.44974	.56455-
4	74	.17000	.40167	.61387-
4	75	.23279	.55005	.46163-
4	76	.24129	.57012	.44105-
4	77	.19954	.47148	.54225-
4	78	.26021	.61484	.39517-
4	79	.29718	.70220	.30554-
4	81	.32071	.75779	.24850-
4	82	.44719	1.05664	.09811
4	83	.64355	1.52059	.53411
4	84	.23881	.56427	.44703-
4	85	.20414	.48234	.51111-
4	86	.42915	1.01401	.01437

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7	1	.14964	.80889	.08814-
7	2	.11803	.63829	.16681-
7	3	.17694	.95648	.02007-
7	4	.11258	.60858	.18052-
7	5	.11134	.60187	.18361-
7	6	.18173	.98236	.00814-
7	7	.27995	1.51331	.23673
7	8	.25495	1.37818	.17441
7	9	.10886	.58846	.18980-
7	10	.10886	.58846	.18980-
7	11	.17800	.96223	.01742-
7	12	.28828	1.55836	.25751
7	13	.40476	2.18802	.54790
7	14	.29768	1.60915	.28093
7	15	.10780	.58271	.19245-
7	16	.10744	.58079	.19333-
7	17	.17729	.95840	.01919-
7	18	.28066	1.51715	.23850
7	19	.43278	2.33945	.61774
7	20	.47834	2.58576	.73133
7	21	.10815	.58462	.19157-
7	22	.10780	.58271	.19245-
7	23	.17304	.93540	.02979-
7	24	.27552	1.48935	.22568
7	25	.42090	2.27524	.58812
7	26	.55954	3.02471	.93377
7	27	.39696	2.14585	.52845
7	28	.10992	.59421	.18718-
7	29	.07092	.38336	.28439-
7	30	.06719	.36323	.29367-
7	31	.06684	.36132	.29455-
7	32	.06755	.36515	.29270-
7	33	.06844	.36994	.29057-
7	34	.06968	.37665	.28748-
7	35	.07096	.38359	.28428-
7	36	.07096	.38359	.28428-
7	37	.06901	.37304	.28915-
7	38	.06493	.35098	.27932-
7	39	.08338	.45072	.25332-
7	40	.10750	.58114	.19317-
7	41	.13979	.75567	.11268-
7	42	.17527	.94746	.02423-
7	43	.22069	1.19296	.08899
7	44	.28100	1.51901	.23936
7	45	.34238	1.85082	.39239
7	46	.42541	2.29962	.59937



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7	47	.51304	2.77325	.81784
7	48	.57194	3.09173	.96468
7	49	.54143	2.92678	.38861
7	50	.43907	2.37346	.63342
7	51	.32003	1.72999	.33666
7	52	.10992	.58881	.18964-
7	53	.06723	.36345	.29357-
7	54	.06635	.35866	.29578-
7	55	.06777	.36633	.29224-
7	56	.06777	.36633	.29224-
7	57	.06528	.35290	.29843-
7	58	.10857	.58689	.19052-
7	59	.10910	.58977	.15919-
7	60	.06599	.35674	.29666-
7	61	.07007	.37879	.28649-
7	62	.06759	.36537	.29268-
7	63	.06315	.34139	.30374-
7	64	.10892	.58881	.18964-
7	65	.10999	.59456	.18698-
7	66	.06617	.35770	.29622-
7	67	.06635	.35866	.29578-
7	68	.06688	.36153	.29445-
7	69	.06358	.34370	.30268-
7	70	.11047	.59715	.18579-
7	71	.11651	.62979	.17074-
7	72	.06749	.36482	.29294-
7	73	.06997	.37826	.28674-
7	74	.06429	.34754	.30091-
7	75	.11242	.60771	.18092-
7	76	.11207	.60579	.18180-
7	77	.08449	.46754	.24556-
7	78	.11526	.62307	.17383-
7	79	.14865	.80356	.09060-
7	81	.17014	.91973	.03702-
7	82	.17867	.96581	.01577-
7	83	.33779	1.82601	.38095
7	84	.06909	.37346	.28895-
7	85	.19749	1.06757	.0716
7	86	.16979	.91781	.03791-

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9	1	.15389	.83189	.07753-
9	2	.12091	.65363	.15974-
9	3	.17605	.95169	.02228-
9	4	.11631	.62871	.17123-
9	5	.11500	.62200	.17433-
9	6	.18793	1.01590	.00733
9	7	.27640	1.49414	.22789
9	8	.25335	1.36955	.17043
9	9	.11240	.60762	.18096-
9	10	.11240	.60762	.18096-
9	11	.18456	.99769	.00106-
9	12	.29661	1.60340	.27828
9	13	.39767	2.14969	.53022
9	14	.29679	1.60436	.27872
9	15	.11099	.59996	.18449-
9	16	.11045	.59708	.18582-
9	17	.18279	.98811	.00548-
9	18	.28917	1.56315	.25972
9	19	.44182	2.38833	.64028
9	20	.47302	2.55701	.71807
9	21	.11063	.59804	.18538-
9	22	.11081	.59900	.18494-
9	23	.17854	.96511	.01609-
9	24	.28314	1.53056	.24469
9	25	.43171	2.33370	.61508
9	26	.56823	3.07167	.95543
9	27	.40547	2.19186	.54967
9	28	.11258	.60858	.18052-
9	29	.07322	.39582	.27864-
9	30	.06932	.37473	.28836-
9	31	.06932	.37473	.28836-
9	32	.07003	.37857	.28660-
9	33	.07110	.38432	.28394-
9	34	.07180	.38815	.28218-
9	35	.07185	.38838	.28207-
9	36	.07238	.39126	.28074-
9	37	.07096	.38359	.28128-
9	38	.06599	.35674	.25666-
9	39	.08533	.46127	.24846-
9	40	.11017	.59552	.18654-
9	41	.14298	.77293	.10472-
9	42	.17935	.86952	.01406-
9	43	.22707	1.22748	.10491
9	44	.28881	1.56121	.25882
9	45	.35143	1.89972	.41494
9	46	.43587	2.35619	.62546

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9	47	.52546	2.84048	.84880
9	48	.58312	3.15214	.99254
9	49	.55101	2.97857	.91249
9	50	.44776	2.42045	.65509
9	51	.32835	1.77602	.35789
9	52	.11176	.60415	.18256-
9	53	.06954	.37592	.28782-
9	54	.06848	.37016	.29047-
9	55	.06990	.37784	.28693-
9	56	.06990	.37784	.28693-
9	57	.06741	.36441	.29313-
9	58	.11141	.60223	.18344-
9	59	.11158	.60319	.18300-
9	60	.06741	.36441	.29313-
9	61	.07291	.39414	.27942-
9	62	.06990	.37784	.28693-
9	63	.06422	.34715	.30109-
9	64	.11141	.60223	.18344-
9	65	.11313	.61182	.17902-
9	66	.06812	.36825	.29136-
9	67	.06883	.37208	.28959-
9	68	.06919	.37400	.28870-
9	69	.06482	.35042	.29958-
9	70	.11366	.61443	.17782-
9	71	.11544	.62403	.17339-
9	72	.06926	.37442	.28851-
9	73	.07068	.38210	.28497-
9	74	.06571	.35522	.29736-
9	75	.11562	.62499	.17295-
9	76	.11544	.62403	.17339-
9	77	.08915	.48194	.23802-
9	78	.11828	.63939	.16631-
9	79	.15309	.82756	.07953-
9	81	.17476	.94469	.02551-
9	82	.18506	1.00037	.00017
9	83	.34738	1.87785	.40485
9	84	.07228	.39074	.78098-
9	85	.20779	1.12326	.05684
9	86	.18222	.98501	.00691-

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10	1	.37920	.64274	.62730-
10	2	.35044	.59399	.71290-
10	3	.40796	.69149	.54171-
10	4	.33340	.56510	.76362-
10	5	.32843	.55668	.77841-
10	6	.38666	.65538	.60511-
10	7	.48395	.82027	.31557-
10	8	.56490	.95749	.07464-
10	9	.32772	.55548	.78052-
10	10	.33251	.56360	.76626-
10	11	.37186	.62860	.65213-
10	12	.47649	.80764	.33776-
10	13	.58070	.98427	.02762-
10	14	.64923	1.10042	.17632
10	15	.33802	.57293	.74988-
10	16	.34157	.57895	.73931-
10	17	.36642	.62107	.66534-
10	18	.47294	.80162	.34833-
10	19	.58567	.99269	.01283-
10	20	.68456	1.16030	.28147
10	21	.34530	.58527	.72822-
10	22	.34760	.58918	.72135-
10	23	.36127	.61235	.68067-
10	24	.46726	.79199	.36524-
10	25	.58123	.98517	.02604-
10	26	.69006	1.16963	.29785
10	27	.75237	1.27525	.48330
10	28	.34831	.59038	.71924-
10	29	.54768	.92830	.12589-
10	30	.53294	.90333	.16975-
10	31	.52744	.89400	.18613-
10	32	.52318	.88678	.19881-
10	33	.52034	.88196	.20726-
10	34	.51856	.87895	.21254-
10	35	.51337	.87014	.22801-
10	36	.50378	.85389	.25656-
10	37	.48619	.82408	.37890-
10	38	.45759	.77560	.59401-
10	39	.41087	.69642	.53305-
10	40	.34977	.59284	.71491-
10	41	.33058	.56032	.77201-
10	42	.36238	.61422	.67738-
10	43	.41460	.70274	.52195-
10	44	.47304	.80180	.34802-
10	45	.52491	.88971	.19365-
10	46	.58567	.99269	.01284-

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10	48	.69598	1.17966	.31546
10	49	.73932	1.25313	.44446
10	50	.76312	1.29347	.51530
10	51	.74962	1.27059	.47512
10	52	.34959	.59254	.71544-
10	53	.53184	.90146	.17303-
10	54	.52083	.88279	.20581-
10	55	.51763	.87737	.21532-
10	56	.50093	.84907	.26502-
10	57	.45226	.76657	.40987-
10	58	.34959	.59254	.71544-
10	59	.34763	.58923	.72126-
10	60	.51941	.88038	.21003-
10	61	.51550	.87376	.22167-
10	62	.49898	.84576	.27083-
10	63	.44747	.75844	.42415-
10	64	.34479	.58441	.72972-
10	65	.33964	.57568	.74505-
10	66	.52936	.89724	.18043-
10	67	.51763	.87737	.21532-
10	68	.49738	.84305	.27559-
10	69	.43996	.74573	.44647-
10	70	.33575	.56909	.75662-
10	71	.33184	.56246	.76826-
10	72	.53831	.91242	.15379-
10	73	.50594	.85756	.25011-
10	74	.43499	.73729	.46129-
10	75	.33291	.56427	.76509-
10	76	.34180	.57934	.73862-
10	77	.44548	.75507	.43006-
10	78	.36741	.62275	.66241-
<del>10</del>	<del>79</del>	<del>.00000</del>	<del>.00000</del>	<del>.00000</del>
10	81	.48976	.83013	.29828-
10	82	.59753	1.01279	.02246
10	83	.73304	1.24248	.42576
10	84	.55876	.94708	.09292-
10	85	.59806	1.01369	.04404
10	86	.60571	1.02668	.04680

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12	1	.48388	.73467	.59822-
12	2	.45970	.69797	.68098-
12	3	.49526	.75195	.55927-
12	4	.43944	.66720	.75035-
12	5	.47362	.64918	.80451-
12	6	.46948	.71281	.64751-
12	7	.55036	.83562	.37062-
12	8	.62538	.94952	.11382-
12	9	.40815	.61970	.85745-
12	10	.39908	.60593	.88849-
12	11	.44975	.68285	.71505-
12	12	.53792	.81672	.41322-
12	13	.63214	.95977	.09070-
12	14	.69933	1.06179	.13932
12	15	.39037	.59270	.91830-
12	16	.38611	.58623	.93291-
12	17	.44246	.67179	.74000-
12	18	.53188	.80755	.43391-
12	19	.63622	.96598	.07670-
12	20	.72706	1.10390	.23426
12	21	.38380	.58272	.94082-
12	22	.38255	.58083	.94508-
12	23	.43659	.66288	.76009-
12	24	.52583	.79837	.45460-
12	25	.62947	.95572	.09983-
12	26	.72955	1.10768	.24278
12	27	.79319	1.20430	.46063
12	28	.38326	.58191	.94264-
12	29	.63587	.96544	.07792-
12	30	.62467	.94844	.11626-
12	31	.62503	.94898	.11504-
12	32	.62503	.94898	.11504-
12	33	.62627	.95086	.11078-
12	34	.62627	.95086	.11078-
12	35	.61330	.93118	.15517-
12	36	.58271	.88473	.25990-
12	37	.53326	.80965	.42917-
12	38	.46816	.71081	.61103-
12	39	.40786	.61926	.85844-
12	40	.37976	.57650	.95465-
12	41	.40786	.61926	.85844-
12	42	.43703	.66355	.75858-
12	43	.47990	.72863	.61184-
12	44	.52970	.80425	.44135-
12	45	.57684	.87582	.27999-
12	46	.63180	.95927	.09184-

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12	47	.68516	1.04028	.09083
12	48	.73337	1.11347	.25584
12	49	.77659	1.17910	.40380
12	50	.80220	1.21799	.49148
12	51	.79224	1.20286	.45738
12	52	.39096	.59360	.91629-
12	53	.62220	.94468	.12472-
12	54	.63074	.95765	.09549-
12	55	.63483	.96386	.08149-
12	56	.59836	.90849	.20631-
12	57	.47683	.72701	.61549-
12	58	.39950	.60656	.88706-
12	59	.40626	.61683	.86392-
12	60	.64639	.98141	.04191-
12	61	.64568	.98033	.04435-
12	62	.62255	.94522	.12350-
12	63	.50231	.76266	.53512-
12	64	.41515	.63033	.83348-
12	65	.42476	.64491	.80068-
12	66	.65848	.99978	.00051-
12	67	.65599	.99599	.00903-
12	68	.63554	.96494	.07905-
12	69	.52086	.79082	.47162-
12	70	.43877	.66518	.75264-
12	71	.45106	.68484	.71058-
12	72	.66118	1.00387	.00873
12	73	.64604	.98089	.04309-
12	74	.54027	.82029	.40518-
12	75	.46726	.70944	.65510-
12	76	.48329	.73377	.60024-
12	77	.56306	.85490	.32715-
12	78	.50359	.76460	.53075-
12	79	.00000	.00000	.00000-
12	81	.59084	.89708	.23206-
12	82	.66047	1.00279	.00629
12	83	.77069	1.17015	.38962
12	84	.65388	.99279	.01427-
12	85	.66350	1.00739	.01465
12	86	.67222	1.02063	.04632

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13	1	.59392	.82529	.50645-
13	2	.57490	.79886	.58307-
13	3	.59694	.82949	.49428-
13	4	.56067	.77910	.64036-
13	5	.55179	.76675	.67617-
13	6	.57418	.79787	.58594-
13	7	.63231	.87865	.35178-
13	8	.68938	.95794	.12192-
13	9	.54076	.75143	.72056-
13	10	.53561	.74427	.74133-
13	11	.55694	.77391	.65540-
13	12	.61934	.86062	.40405-
13	13	.69187	.96140	.11189-
13	14	.75017	1.04242	.12298
13	15	.53188	.73908	.75637-
13	16	.52850	.73439	.76997-
13	17	.54912	.76304	.68691-
13	18	.61151	.84975	.43556-
13	19	.69311	.96313	.10688-
13	20	.77079	1.07108	.20605
13	21	.52725	.73266	.77498-
13	22	.52637	.73143	.77856-
13	23	.54467	.75687	.70481-
13	24	.60583	.84184	.45848-
13	25	.68689	.95449	.13194-
13	26	.77079	1.07108	.20605
13	27	.82750	1.14988	.43448
13	28	.52690	.73217	.77642-
13	29	.70306	.97696	.06678-
13	30	.69542	.96634	.09757-
13	31	.69471	.96535	.10043-
13	32	.69435	.96486	.10187-
13	33	.69471	.96535	.10043-
13	34	.69400	.96437	.10330-
13	35	.68321	.94937	.14677-
13	36	.65439	.90933	.26284-
13	37	.60832	.84531	.44842-
13	38	.56706	.78797	.6146 -
13	39	.54304	.75460	.71138-
13	40	.52597	.73088	.78016-
13	41	.53486	.74323	.74434-
13	42	.54536	.75782	.70206-
13	43	.57204	.79489	.59459-
13	44	.60779	.84457	.45057-
13	45	.64550	.89697	.29867-
13	46	.68961	.95827	.12097-



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13	47	.73372	1.01957	.05672
13	48	.77552	1.07765	.22510
13	49	.81252	1.12906	.37414
13	50	.83493	1.16021	.46442
13	51	.82995	1.15329	.44436
13	52	.53059	.73730	.76193-
13	53	.69637	.96766	.09374-
13	54	.70171	.97508	.07225-
13	55	.70384	.97804	.06365-
13	56	.66595	.92540	.21627-
13	57	.57471	.79860	.58384-
13	58	.53451	.74274	.74577-
13	59	.53949	.74966	.72571-
13	60	.71345	.99139	.02496-
13	61	.71149	.98867	.03284-
13	62	.68534	.95234	.13817-
13	63	.59012	.82010	.52150-
13	64	.54465	.75683	.70493-
13	65	.55051	.76498	.68128-
13	66	.72270	1.00424	.01230
13	67	.71949	.99979	.00860-
13	68	.69495	.96568	.09948-
13	69	.60153	.89587	.47580-
13	70	.55736	.77450	.65369-
13	71	.56484	.78490	.62356-
13	72	.72173	1.00289	.00839
13	73	.70089	.97394	.07553-
13	74	.61684	.85715	.41411-
13	75	.57482	.79875	.58339-
13	76	.58514	.81310	.54179-
13	77	.63287	.87942	.34955-
13	78	.59832	.83142	.48871-
13	79	.61239	.85096	.43204-
13	81	.68771	.95563	.12862-
13	82	.72119	1.00215	.00624
13	83	.81272	1.12934	.37494
13	84	.72155	1.00265	.00767
13	85	.72511	1.00760	.61202
13	86	.73223	1.01749	.05071

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14	1	.70413	.88978	.45541-
14	2	.69080	.87293	.52502-
14	3	.70484	.89068	.45170-
14	4	.68013	.85946	.58071-
14	5	.67427	.85204	.61134-
14	6	.68778	.86912	.54080-
14	7	.72724	.91898	.33475-
14	8	.76884	.97155	.11755-
14	9	.66680	.84261	.63032-
14	10	.66360	.83857	.66703-
14	11	.67516	.85317	.60670-
14	12	.71622	.90506	.39229-
14	13	.76919	.97200	.11570-
14	14	.81363	1.02816	.11634
14	15	.66005	.83407	.68559-
14	16	.65756	.83093	.69859-
14	17	.66893	.84530	.63919-
14	18	.70929	.89630	.42849-
14	19	.76813	.97065	.12127-
14	20	.82715	1.04523	.18689
14	21	.65649	.82958	.70416-
14	22	.65613	.82913	.70681-
14	23	.66680	.84261	.65032-
14	24	.70413	.88978	.45541-
14	25	.76173	.96256	.15468-
14	26	.82572	1.04343	.17946
14	27	.86803	1.09690	.40036
14	28	.65542	.82823	.70973-
14	29	.77968	.98525	.06094-
14	30	.77417	.97829	.08971-
14	31	.77417	.97829	.08971-
14	32	.77310	.97694	.09528-
14	33	.77364	.97761	.09249-
14	34	.77293	.97672	.09621-
14	35	.76129	.96202	.15694-
14	36	.73461	.92830	.29625-
14	37	.70295	.88829	.46157-
14	38	.67805	.85682	.59159-
14	39	.66578	.84131	.65567-
14	40	.65457	.82715	.71418-
14	41	.66008	.83412	.68539-
14	42	.66667	.84244	.65103-
14	43	.68232	.86222	.56930-
14	44	.70509	.89099	.45042-
14	45	.73034	.92291	.31854-
14	46	.76165	.96247	.15509-

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14	47	.79580	1.00562	.02323
14	48	.82711	1.04518	.18668
14	49	.85628	1.08204	.33900
14	50	.87406	1.10452	.43187
14	51	.87086	1.10047	.41515
14	52	.65813	.83165	.69561-
14	53	.77268	.97640	.09751-
14	54	.77766	.98270	.07150-
14	55	.77873	.98404	.06593-
14	56	.74368	.93976	.24889-
14	57	.68303	.86312	.56558-
14	58	.66044	.83457	.68353-
14	59	.66275	.83749	.67146-
14	60	.78691	.99438	.02321-
14	61	.78584	.99303	.02878-
14	62	.75880	.95887	.16995-
14	63	.69370	.87660	.50986-
14	64	.66702	.84289	.64917-
14	65	.67022	.84693	.63245-
14	66	.79491	1.00450	.01858
14	67	.79278	1.00180	.00744
14	68	.76663	.96876	.12908-
14	69	.70285	.88816	.46210-
14	70	.67703	.85553	.59692-
14	71	.68148	.86116	.57367-
14	72	.79402	1.00337	.01394
14	73	.76998	.97300	.11158-
14	74	.71211	.89986	.41375-
14	75	.88771	.86904	.54113-
14	76	.69466	.87781	.50487-
14	77	.72333	.91404	.35518-
14	78	.70338	.88884	.45931-
14	79	.71389	.90211	.40445-
14	81	.77871	.98402	.06602-
14	82	.79117	.99977	.00094-
14	83	.85866	1.08506	.55145
14	84	.79545	1.00517	.02138
14	85	.79331	1.00247	.010 2
14	86	.79865	1.00922	.03812

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15	1	.77790	.92399	.43087-
15	2	.76902	.91344	.49072-
15	3	.77861	.92484	.42608-
15	4	.76048	.90330	.54818-
15	5	.75639	.89844	.57571-
15	6	.76582	.90964	.51227-
15	7	.79497	.94426	.31596-
15	8	.82555	.98058	.11008-
15	9	.74999	.89084	.61880-
15	10	.74768	.88810	.63436-
15	11	.75604	.89802	.57810-
15	12	.78537	.93286	.38060-
15	13	.82537	.98037	.11127-
15	14	.85790	1.01901	.10778
15	15	.74555	.88556	.64873-
15	16	.74324	.98282	.66429-
15	17	.75231	.89359	.60324-
15	18	.78217	.92906	.40214-
15	19	.82412	.97889	.11963-
15	20	.86750	1.03041	.17241
15	21	.74342	.88303	.66309-
15	22	.74235	.88176	.67027-
15	23	.74982	.89063	.62000-
15	24	.77719	.92315	.43566-
15	25	.81879	.97256	.15556-
15	26	.86572	1.02830	.16045
15	27	.89843	1.06715	.38069
15	28	.74200	.88134	.67267-
15	29	.83479	.99156	.04783-
15	30	.83052	.98649	.07656-
15	31	.83052	.98649	.07656-
15	32	.82981	.98565	.08135-
15	33	.83052	.98649	.07656-
15	34	.82892	.98459	.08733-
15	35	.81786	.97145	.16184-
15	36	.79705	.94673	.20198-
15	37	.77428	.91969	.45528-
15	38	.75685	.89898	.57267-
15	39	.74813	.88863	.63135-
15	40	.74102	.88018	.67926-
15	41	.74546	.88546	.64931-
15	42	.74991	.89074	.61937-
15	43	.76058	.90742	.54751-
15	44	.77748	.92349	.43373-
15	45	.79669	.94631	.30437-
15	46	.81999	.97399	.14747-

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15	47	.84472	1.00335	.01901
15	48	.86855	1.03166	.17950
15	49	.89025	1.05744	.32562
15	50	.90466	1.07455	.42264
15	51	.90270	1.07223	.40946
15	52	.74333	.88293	.66369-
15	53	.83120	.58730	.07202-
15	54	.83369	.99025	.05525-
15	55	.83511	.99194	.04567-
15	56	.80452	.95560	.25167-
15	57	.76165	.90469	.54032-
15	58	.74617	.88631	.64452-
15	59	.74831	.88884	.63015-
15	60	.84223	1.00040	.00224
15	61	.84045	.59828	.00974-
15	62	.81732	.97082	.16544-
15	63	.76965	.91419	.48643-
15	64	.75080	.89180	.61338-
15	65	.75436	.89602	.58943-
15	66	.84685	1.00589	.03338
15	67	.84543	1.00420	.02380
15	68	.82319	.97779	.12591-
15	69	.77319	.91839	.46263-
15	70	.75645	.89851	.57534-
15	71	.75894	.90147	.55855-
15	72	.84317	1.00152	.00860
15	73	.82323	.97783	.12569-
15	74	.78102	.92770	.40987-
15	75	.76393	.90739	.52498-
15	76	.76980	.91437	.48541-
15	77	.79028	.93870	.34752-
15	78	.77657	.92241	.43985-
15	79	.78423	.93151	.38829-
15	81	.83551	.99242	.04296-
15	82	.84246	1.00067	.00781
15	83	.89161	1.05905	.33475
15	84	.84655	1.00554	.03138
15	85	.84335	1.00173	.00110
15	86	.84709	1.00617	.03498

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16	1	.85790	.95840	.36957-
16	2	.85132	.95105	.43485-
16	3	.85825	.95880	.36604-
16	4	.84652	.94569	.48248-
16	5	.84350	.94232	.51248-
16	6	.85008	.94966	.44720-
16	7	.86750	.96913	.27430-
16	8	.88563	.98938	.09434-
16	9	.84030	.93874	.54424-
16	10	.83870	.93695	.56011-
16	11	.84457	.94351	.50189-
16	12	.86181	.96277	.33075-
16	13	.88670	.99057	.08375-
16	14	.90661	1.01282	.11385
16	15	.83674	.93477	.57952-
16	16	.83568	.93358	.59011-
16	17	.84101	.93954	.53718-
16	18	.85897	.95959	.35898-
16	19	.88474	.98839	.10316-
16	20	.91247	1.01937	.17208
16	21	.83514	.93298	.59540-
16	22	.83479	.93258	.59893-
16	23	.83906	.93735	.55659-
16	24	.85577	.95602	.39074-
16	25	.88136	.98462	.13668-
16	26	.91123	1.01798	.15973
16	27	.00000	.00000	.00000-
16	28	.83426	.93199	.60422-
16	29	.89310	.99772	.02023-
16	30	.89025	.99454	.04846-
16	31	.89061	.99494	.04494-
16	32	.88990	.99415	.05199-
16	33	.88990	.99415	.05199-
16	34	.88776	.99176	.07316-
16	35	.87833	.98123	.16675-
16	36	.86339	.96454	.31504-
16	37	.85023	.94983	.44563-
16	38	.84045	.93891	.54218-
16	39	.83547	.93334	.59221-
16	40	.83173	.92917	.62928-
16	41	.83422	.93195	.60456-
16	42	.83778	.93592	.56926-
16	43	.84347	.94228	.51276-
16	44	.85414	.95421	.40684-
16	45	.86499	.96633	.29916-
16	46	.87993	.98302	.15086-

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16	47	.89577	1.00070	.00625
16	48	.91071	1.01740	.15455
16	49	.92511	1.03349	.29754
16	50	.93419	1.04363	.38757
16	51	.93205	1.04124	.36639
16	52	.83369	.93135	.60986-
16	53	.88936	.99355	.05730-
16	54	.89025	.99454	.04847-
16	55	.89007	.99435	.05024-
16	56	.86997	.97189	.24972-
16	57	.84383	.94268	.50923-
16	58	.83529	.93314	.59397-
16	59	.83671	.93473	.57985-
16	60	.89523	1.00011	.00096
16	61	.89416	.99892	.00963-
16	62	.87691	.97964	.18088-
16	63	.84845	.94785	.46333-
16	64	.83849	.93672	.56220-
16	65	.84027	.93671	.54454-
16	66	.89826	1.00349	.03097
16	67	.89737	1.00249	.02214
16	68	.88047	.98361	.14557-
16	69	.85207	.95189	.42738-
16	70	.84210	.94075	.52635-
16	71	.84388	.94274	.50868-
16	72	.89873	1.00401	.03567
16	73	.88306	.98651	.11986-
16	74	.85813	.95866	.36729-
16	75	.84887	.94831	.45919-
16	76	.85190	.95170	.42915-
16	77	.86383	.96502	.31074-
16	78	.85635	.95667	.38496-
16	79	.86080	.96164	.34078-
16	81	.89303	.99765	.02089-
16	82	.89659	1.00163	.01446
16	83	.92829	1.03704	.32904
16	84	.89944	1.00481	.04273
16	85	.89695	1.00203	.01799
16	86	.90051	1.00600	.05334

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19	1	.52135	.78688	.48908-
19	2	.49862	.75185	.56947-
19	3	.51542	.77718	.51134-
19	4	.47985	.72355	.63440-
19	5	.46502	.70119	.68573-
19	6	.48700	.73433	.60967-
19	7	.56206	.84751	.34993-
19	8	.63373	.95557	.10195-
19	9	.44876	.67666	.74201-
19	10	.43750	.65969	.78097-
19	11	.46413	.69984	.68882-
19	12	.54777	.82595	.39941-
19	13	.63945	.96420	.08216-
19	14	.70593	1.06444	.14789-
19	15	.42642	.64298	.81931-
19	16	.41766	.62977	.84961-
19	17	.45197	.68151	.73088-
19	18	.53972	.81383	.42723-
19	19	.64195	.95797	.07350-
19	20	.73310	1.10541	.24189
19	21	.41051	.61899	.87435-
19	22	.40265	.60714	.90156-
19	23	.44429	.66993	.75747-
19	24	.53204	.80224	.45383-
19	25	.63516	.95773	.09700-
19	26	.73560	1.10918	.25055
19	27	.79815	1.20350	.46699
19	28	.39657	.59798	.92258-
19	29	.64016	.96528	.07969-
19	30	.63123	.95180	.11061-
19	31	.63141	.95207	.10999-
19	32	.63123	.95180	.11061-
19	33	.63266	.95396	.10566-
19	34	.63266	.95396	.10566-
19	35	.62463	.94186	.13343-
19	36	.59638	.89925	.23120-
19	37	.54595	.82321	.40570-
19	38	.47978	.72345	.63465-
19	39	.41988	.63312	.84 34-
19	40	.38948	.58728	.94713-
19	41	.41541	.62630	.85741-
19	42	.44348	.66871	.76026-
19	43	.48551	.73207	.61485-
19	44	.53576	.80784	.44097-
19	45	.58422	.88092	.27328-
19	46	.63840	.96262	.08579-



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20	47	.73337	1.01907	.05529
20	48	.77481	1.07666	.22224
20	49	.81234	1.12882	.37342
20	50	.83493	1.16021	.46442
20	51	.82960	1.15279	.44292
20	52	.52597	.73088	.78016-
20	53	.70526	.98002	.05792-
20	54	.69619	.96741	.09446-
20	55	.69050	.95951	.11739-
20	56	.63785	.88634	.32948-
20	57	.55065	.77907	.64044-
20	58	.52650	.73162	.77801-
20	59	.52721	.73261	.77515-
20	60	.70331	.97730	.06580-
20	61	.68872	.95703	.12455-
20	62	.63216	.87843	.35240-
20	63	.55834	.77586	.64976-
20	64	.52935	.73557	.76655-
20	65	.53255	.74002	.75365-
20	66	.70793	.98373	.04717-
20	67	.68730	.95506	.13029-
20	68	.62860	.87349	.36673-
20	69	.56324	.78267	.63002-
20	70	.53831	.74803	.73044-
20	71	.54419	.75619	.70677-
20	72	.68754	.95539	.12933-
20	73	.63358	.88041	.34668-
20	74	.57482	.79975	.58339-
20	75	.55309	.76856	.67091-
20	76	.56324	.78267	.63002-
20	77	.58853	.81781	.52816-
20	78	.57677	.80147	.57550-
20	79	.59244	.82325	.51238-
20	81	.68789	.95588	.12790-
20	82	.71994	1.00042	.00122
20	83	.81325	1.13008	.57709
20	84	.72173	1.00289	.00839
20	85	.72511	1.00760	.07202
20	86	.73170	1.01675	.04856

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20	1	.61400	.85321	.42554-
20	2	.59658	.82900	.49571-
20	3	.60849	.84555	.44773-
20	4	.58378	.81121	.54727-
20	5	.57312	.79639	.59024-
20	6	.58574	.81393	.53939-
20	7	.63871	.88754	.32600-
20	8	.69453	.96511	.10115-
20	9	.56263	.78182	.63248-
20	10	.55641	.77317	.65755-
20	11	.56601	.78651	.61888-
20	12	.62396	.86704	.38544-
20	13	.69595	.96708	.09542-
20	14	.75355	1.04712	.13659
20	15	.54983	.76403	.68404-
20	16	.54450	.75662	.70552-
20	17	.55570	.77218	.66041-
20	18	.61614	.85617	.41694-
20	19	.69613	.96733	.09471-
20	20	.77435	1.07602	.22037
20	21	.53970	.74995	.72486-
20	22	.53543	.74402	.74204-
20	23	.54894	.76280	.68762-
20	24	.60778	.84456	.45060-
20	25	.68831	.95646	.12621-
20	26	.77435	1.07602	.22037
20	27	.83017	1.15358	.44522
20	28	.53223	.73958	.73493-
20	29	.70360	.97771	.06463-
20	30	.69524	.96610	.09829-
20	31	.69506	.96585	.09900-
20	32	.69382	.96412	.10401
20	33	.69489	.96560	.09972-
20	34	.69506	.96585	.09900-
20	35	.68196	.94764	.15178-
20	36	.65386	.90859	.26499-
20	37	.60957	.84704	.44240-
20	38	.56848	.78995	.60892-
20	39	.54376	.75559	.70851-
20	40	.52508	.72964	.78374-
20	41	.53397	.74200	.74792-
20	42	.54571	.75831	.70063-
20	43	.57115	.79548	.59817-
20	44	.60726	.84383	.45272-
20	45	.64425	.89524	.30368-
20	46	.68837	.95654	.12599-

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19	47	.69223	1.04376	.10047
19	48	.74069	1.11685	.26816
19	49	.75360	1.18157	.41667
19	50	.80682	1.21959	.50351
19	51	.79916	1.20502	.47050
19	52	.39109	.58970	.94156-
19	53	.64627	.97448	.05856-
19	54	.63751	.96127	.08888-
19	55	.63214	.95318	.1074-
19	56	.57724	.87040	.29741-
19	57	.46101	.69513	.69962-
19	58	.39252	.59186	.93661-
19	59	.39323	.59294	.92414-
19	60	.64502	.97259	.06289-
19	61	.63035	.95046	.11363-
19	62	.56866	.85746	.32711-
19	63	.45725	.68947	.71261-
19	64	.39645	.59779	.92300-
19	65	.40182	.60558	.90444-
19	66	.64984	.97987	.04618-
19	67	.62785	.94671	.12229-
19	68	.56097	.84586	.35372-
19	69	.46045	.69429	.70155-
19	70	.41032	.61871	.87500-
19	71	.42071	.63437	.83507-
19	72	.62551	.94318	.13039-
19	73	.56068	.84573	.35402-
19	74	.47620	.71805	.64703-
19	75	.43467	.65542	.79075-
19	76	.45078	.67972	.73500-
19	77	.49625	.74828	.57765-
19	78	.46994	.70860	.66871-
19	79	.49142	.74099	.59438-
19	81	.60009	.90485	.21835-
19	82	.66704	1.00561	.01333
19	83	.77911	1.17479	.40112
19	84	.66114	.99690	.00711-
19	85	.67062	1.01121	.02 72
19	86	.67850	1.02305	.05298

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21	1	.38451	.64961	.61934-
21	2	.35535	.60036	.70640-
21	3	.41138	.69587	.53759-
21	4	.53847	.57183	.75683-
21	5	.33171	.56042	.77701-
21	6	.38984	.65862	.60341-
21	7	.48619	.82140	.31569-
21	8	.56796	.95956	.07149-
21	9	.33029	.55801	.78125-
21	10	.33456	.56522	.76851-
21	11	.37349	.63099	.65225-
21	12	.47837	.80819	.33904-
21	13	.58183	.98298	.03008-
21	14	.65151	1.10071	.17802
21	15	.33918	.57303	.75471-
21	16	.34327	.57994	.74250-
21	17	.36780	.62138	.66924-
21	18	.47481	.80218	.34966-
21	19	.58929	.99559	.00779-
21	20	.68671	1.16018	.28313
21	21	.34718	.58654	.73082-
21	22	.34967	.59075	.72339-
21	23	.36389	.61478	.68092-
21	24	.46930	.79287	.36612-
21	25	.58376	.98628	.02424-
21	26	.69204	1.16919	.29905
21	27	.75515	1.27580	.48751
21	28	.35070	.59165	.72180-
21	29	.55445	.93673	.11184-
21	30	.53988	.91210	.15537-
21	31	.53348	.90129	.17448-
21	32	.52850	.89288	.18934-
21	33	.52690	.89018	.19412-
21	34	.52494	.88688	.19996-
21	35	.52010	.87869	.21443-
21	36	.50978	.86126	.24523-
21	37	.49182	.83091	.29888-
21	38	.46211	.78072	.38759-
21	39	.41160	.69533	.53045-
21	40	.35290	.59621	.71373-
21	41	.33404	.56436	.77004-
21	42	.36482	.61635	.67815-
21	43	.41800	.70620	.51932-
21	44	.47527	.80296	.34828-
21	45	.52757	.89131	.19212-
21	46	.53822	.99379	.01098-

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21	47	.64585	1.09115	.16112
21	48	.69726	1.17800	.31463
21	49	.74137	1.25253	.44636
21	50	.76553	1.29340	.51860
21	51	.75062	1.26815	.47398
21	52	.35254	.59561	.71480-
21	53	.53789	.90874	.16131-
21	54	.52721	.89071	.19318-
21	55	.52259	.88290	.20699-
21	56	.50622	.85525	.25586-
21	57	.45642	.77111	.40459-
21	58	.35254	.59561	.71480-
21	59	.35005	.59140	.72223-
21	60	.52650	.88951	.19530-
21	61	.52117	.88049	.21124-
21	62	.50373	.85104	.26329-
21	63	.45180	.76330	.41840-
21	64	.34685	.58599	.73179-
21	65	.34187	.57758	.74667-
21	66	.53611	.90574	.16662-
21	67	.52366	.88470	.20380-
21	68	.50231	.84864	.26754-
21	69	.44340	.74911	.44347-
21	70	.33834	.57161	.75722-
21	71	.33478	.56559	.76786-
21	72	.54437	.91969	.14196-
21	73	.51035	.86223	.24353-
21	74	.43948	.74249	.45517-
21	75	.33656	.56860	.76254-
21	76	.34403	.58124	.74021-
21	77	.44251	.74760	.44613-
21	78	.36113	.61012	.68915-
21	79	.38748	.65464	.61045-
21	81	.49433	.83515	.29139-
21	82	.59975	1.01325	.02343
21	83	.73419	1.24039	.42472
21	84	.56698	.95790	.07442-
21	85	.60117	1.01566	.02768
21	86	.60758	1.02649	.04682

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22	1	.71391	.90353	.39591-
22	2	.70146	.88778	.46054-
22	3	.70982	.89835	.41714-
22	4	.69080	.87428	.51594-
22	5	.68458	.86641	.54825-
22	6	.69329	.87743	.50301-
22	7	.72955	.92333	.31466-
22	8	.77000	.97462	.10414-
22	9	.67764	.85763	.58426-
22	10	.67373	.85268	.60458-
22	11	.68013	.86078	.57134-
22	12	.71800	.90870	.37467-
22	13	.77008	.97462	.10414-
22	14	.81381	1.02997	.12299
22	15	.66964	.84751	.62581-
22	16	.66627	.84323	.64335-
22	17	.67302	.85178	.60827-
22	18	.71124	.90015	.40976-
22	19	.76866	.97282	.11153-
22	20	.82786	1.04774	.19593
22	21	.66271	.83873	.66182-
22	22	.66022	.83558	.67475-
22	23	.66698	.84413	.63966-
22	24	.70466	.89183	.44392-
22	25	.76190	.96427	.14661-
22	26	.82661	1.04617	.18947
22	27	.86999	1.10106	.41476
22	28	.65720	.83176	.69044-
22	29	.78146	.98902	.04505-
22	30	.77470	.98047	.08014-
22	31	.77613	.98227	.07275-
22	32	.77417	.97980	.08291-
22	33	.77399	.97957	.08383-
22	34	.77364	.97912	.08568-
22	35	.76023	.96215	.15533-
22	36	.73532	.93063	.28457-
22	37	.70242	.88899	.45559-
22	38	.67752	.85747	.58493-
22	39	.66435	.84081	.65119-
22	40	.65333	.82685	.71057-
22	41	.65919	.83428	.68009-
22	42	.66506	.84171	.64960-
22	43	.68143	.86242	.56460-
22	44	.70491	.89214	.44265-
22	45	.73052	.92456	.30962-
22	46	.76183	.96418	.14702-

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22	47	.79580	1.00717	.02944
22	48	.82711	1.04679	.19204
22	49	.85574	1.08304	.34078
22	50	.87442	1.10668	.43779
22	51	.87211	1.10375	.42578
22	52	.85333	.82685	.71057-
22	53	.78264	.99051	.03893-
22	54	.77712	.98354	.06757-
22	55	.77019	.97476	.10360-
22	56	.72341	.91555	.34657-
22	57	.67360	.85252	.60525-
22	58	.65404	.82776	.70688-
22	59	.65546	.82956	.69949-
22	60	.78139	.98894	.04539-
22	61	.76894	.97318	.11006-
22	62	.72109	.91262	.35858-
22	63	.67378	.85274	.60433-
22	64	.65617	.83046	.69579-
22	65	.65955	.83473	.67824-
22	66	.78353	.99164	.03431-
22	67	.76663	.97025	.12207-
22	68	.72074	.91217	.36043-
22	69	.67471	.85392	.59948-
22	70	.66011	.83544	.67532-
22	71	.66439	.84085	.65312-
22	72	.76375	.96661	.13703-
22	73	.72244	.91432	.35161-
22	74	.68397	.86564	.55138-
22	75	.67062	.84874	.62075-
22	76	.67756	.85753	.58468-
22	77	.69430	.87872	.49774-
22	78	.68736	.86993	.53381-
22	79	.69947	.88525	.47092-
22	80	.77764	.98419	.06489-
22	81	.79064	1.00064	.00263
22	82	.85973	1.08208	.36149
22	83	.79509	1.00627	.02575
22	84	.79313	1.00380	.01558
22	85	.79972	1.01213	.04980

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23	1	.25085	1.02000	.01159
23	2	.20203	.82149	.10346-
23	3	.28032	1.13983	.08104
23	4	.18445	.75002	.14488-
23	5	.17842	.72548	.15910-
23	6	.27659	1.12467	.07226
23	7	.38879	1.58090	.33667
23	8	.36305	1.47622	.27600
23	9	.17451	.70960	.16831-
23	10	.17433	.70888	.16873-
23	11	.27091	1.10157	.05887
23	12	.41205	1.67546	.39147
23	13	.52158	2.12085	.64961
23	14	.39057	1.58811	.34085
23	15	.17274	.70238	.17249-
23	16	.17256	.70166	.17291-
23	17	.27020	1.09869	.05720
23	18	.40566	1.64947	.37641
23	19	.58052	2.36052	.78851
23	20	.57058	2.32009	.76508
23	21	.17398	.70743	.16956-
23	22	.17327	.70455	.17124-
23	23	.26594	1.08136	.04715
23	24	.39802	1.61843	.35842
23	25	.57165	2.32442	.76759
23	26	.69361	2.82035	1.05501
23	27	.49140	1.99814	.57849
23	28	.17646	.71754	.16370-
23	29	.13510	.54934	.26119-
23	30	.12889	.52408	.27583-
23	31	.12853	.52263	.27666-
23	32	.12889	.52408	.27583-
23	33	.12942	.52624	.27457-
23	34	.12995	.52841	.27332-
23	35	.12967	.52728	.27397-
23	36	.12932	.52584	.27481-
23	37	.12825	.52150	.27732-
23	38	.11333	.46083	.312 9-
23	39	.14051	.57134	.24944-
23	40	.17302	.70352	.17183-
23	41	.21974	.89349	.06173-
23	42	.26859	1.09212	.05339
23	43	.33040	1.54348	.19907
23	44	.40661	1.65335	.37866
23	45	.48210	1.96033	.55657
23	46	.57696	2.34604	.78012



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23	47	.67395	2.74041	1.00868
23	48	.72227	2.93688	1.12255
23	49	.66045	2.68552	.97687
23	50	.53966	2.19435	.69221
23	51	.42491	1.72775	.42178
23	52	.17586	.71508	.16513-
23	53	.13021	.52945	.27272-
23	54	.12754	.51861	.27900-
23	55	.12861	.52295	.27648-
23	56	.12612	.51283	.28234-
23	57	.11973	.48683	.29741-
23	58	.17497	.71147	.16722-
23	59	.17550	.71363	.16597-
23	60	.12683	.51572	.28067-
23	61	.12648	.51428	.28151-
23	62	.12399	.50417	.28737-
23	63	.11084	.45072	.31835-
23	64	.17479	.71075	.16764-
23	65	.17657	.71797	.16346-
23	66	.12808	.52076	.27774-
23	67	.12612	.51283	.28234-
23	68	.12381	.50344	.28779-
23	69	.10990	.44688	.32057-
23	70	.17606	.71588	.16467-
23	71	.17801	.72384	.16006-
23	72	.13000	.52860	.27321-
23	73	.12235	.49750	.29123-
23	74	.11381	.46279	.31135-
23	75	.18050	.73396	.15419-
23	76	.18530	.75348	.14287-
23	77	.14654	.59584	.23423-
23	78	.19989	.81278	.10851-
23	79	.25502	1.03694	.02141
23	81	.26177	1.06442	.03734
23	82	.24346	.98994	.00583-
23	83	.46202	1.87865	.50923
23	84	.15507	.63055	.21412-
23	85	.26497	1.07744	.07488
23	86	.19242	.78241	.12611-

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24	1	.25123	1.02153	.01248
24	2	.20194	.82112	.10367-
24	3	.28013	1.13904	.08058
24	4	.18439	.74975	.14504-
24	5	.17836	.72524	.15924-
24	6	.27693	1.12607	.07306
24	7	.38898	1.58168	.33712
24	8	.36310	1.47643	.27612
24	9	.17481	.71082	.16760-
24	10	.17464	.71010	.16802-
24	11	.27055	1.10011	.05802
24	12	.41292	1.67901	.39353
24	13	.52266	2.12525	.65216
24	14	.39076	1.58889	.34130
24	15	.17339	.70505	.17094-
24	16	.17393	.70722	.16969-
24	17	.27055	1.10011	.05802
24	18	.40636	1.65233	.37807
24	19	.58117	2.36315	.79004
24	20	.57160	2.32422	.76747
24	21	.17481	.71082	.16760-
24	22	.17357	.70577	.17052-
24	23	.26647	1.08353	.04841
24	24	.39820	1.61917	.35885
24	25	.57266	2.32855	.76998
24	26	.69358	2.82021	1.05493
24	27	.49252	2.00270	.58113
24	28	.17659	.71803	.16342-
24	29	.13528	.55006	.26077-
24	30	.12872	.52338	.27623-
24	31	.12872	.52338	.27623-
24	32	.12836	.52194	.27707-
24	33	.12942	.52627	.27450-
24	34	.12978	.52771	.27372-
24	35	.12950	.52658	.27438-
24	36	.12915	.52514	.27521-
24	37	.12844	.52225	.27689-
24	38	.11336	.46094	.31242-
24	39	.14015	.56986	.7 929-
24	40	.17314	.70403	.17153-
24	41	.21980	.89375	.06158-
24	42	.26823	1.09067	.05255
24	43	.32996	1.34170	.19804
24	44	.40642	1.65260	.37822
24	45	.48200	1.95989	.55632
24	46	.57691	2.34581	.77999

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24	47	.67377	2.72967	1.00825
24	48	.72237	2.93731	1.12280
24	49	.66028	2.68484	.97648
24	50	.54143	2.20154	.69637
24	51	.42558	1.73050	.42338
24	52	.17563	.71413	.16568-
24	53	.13003	.52875	.27312-
24	54	.12791	.52009	.27814-
24	55	.12897	.52442	.27563-
24	56	.12666	.51504	.28107-
24	57	.12028	.48907	.29612-
24	58	.17545	.71341	.16610-
24	59	.17616	.71629	.16443-
24	60	.12684	.51576	.28065-
24	61	.12666	.51504	.28107-
24	62	.12436	.50566	.28650-
24	63	.11105	.45156	.31786-
24	64	.17474	.71052	.16777-
24	65	.17634	.71702	.16401-
24	66	.12808	.52081	.27772-
24	67	.12631	.51360	.28190-
24	68	.12471	.50711	.28567-
24	69	.10958	.44557	.32133-
24	70	.17547	.71349	.16605-
24	71	.17742	.72143	.16145-
24	72	.12876	.52356	.27613-
24	73	.12166	.49467	.29287-
24	74	.11278	.45857	.31380-
24	75	.18026	.73299	.15475-
24	76	.18453	.74032	.14471-
24	77	.14599	.59361	.23553-
24	78	.19927	.81026	.10997-
24	79	.25557	1.03918	.02271
24	81	.26178	1.06445	.03736
24	82	.24296	.98791	.00701-
24	83	.46087	1.87399	.30653
24	84	.15433	.62755	.21586-
24	85	.26391	1.07312	.04238
24	86	.19252	.78281	.2587-

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28	1	.22642	.92066	.04598-
28	2	.29014	1.17978	.10420
28	3	.20720	.84249	.09123-
28	4	.19794	.80486	.11310-
28	5	.30225	1.22900	.13272
28	6	.37025	1.50549	.29296
28	7	.19260	.78314	.12568-
28	8	.18815	.76505	.13617-
28	9	.29228	1.18847	.10923
28	10	.41368	1.68209	.39532
28	11	.43824	1.78198	.45321
28	12	.18868	.76722	.13491-
28	13	.18637	.75781	.14036-
28	14	.28569	1.16169	.09371
28	15	.42044	1.70960	.41126
28	16	.51033	2.07511	.62310
28	17	.40549	1.64880	.37602
28	18	.18708	.76071	.13869-
28	19	.15362	.62463	.21755-
28	20	.14596	.59351	.23559-
28	21	.14418	.58627	.23978-
28	22	.14276	.58048	.24314-
28	23	.13528	.55008	.26076-
28	24	.12674	.51534	.28089-
28	25	.11677	.47481	.30438-
28	26	.14650	.59568	.23433-
28	27	.18477	.75130	.14414-
28	28	.23746	.96554	.01997-
28	29	.28623	1.16386	.09497
28	30	.35618	1.44831	.25982
28	31	.42133	1.71322	.41336
28	32	.50268	2.04399	.60506
28	33	.53330	2.16848	.67721
28	34	.50944	2.07149	.62100
28	35	.44029	1.79029	.45802
28	36	.18612	.75682	.14094-
28	37	.14534	.59097	.23706-
28	38	.13875	.56417	.25259-
28	39	.13038	.53013	.27232-
28	40	.11720	.47654	.30338-
28	41	.18577	.75537	.14178-
28	42	.18559	.75464	.14220-
28	43	.13251	.53882	.26728-
28	44	.12272	.49899	.29037-
28	45	.11898	.48378	.29918-
28	46	.19004	.77275	.13171-

# NAVORD Report 6699

28	47	.19360	.78723	.12331-
28	48	.11969	.48668	.29750-
28	49	.12931	.52579	.27484-
28	50	.20126	.81838	.10526-
28	51	.20981	.85314	.08512-
28	52	.19093	.77637	.12961-
28	53	.22905	.93135	.03978-
28	81	.24642	1.00200	.00116
28	82	.22877	.93022	.04044-
28	83	.38265	1.55593	.32220
<del>28</del>	<del>84</del>	<del>.21201</del>	<del>.86207</del>	<del>.87994-</del>
<del>28</del>	<del>85</del>	<del>.22627</del>	<del>.92007</del>	<del>.04652-</del>
<del>28</del>	<del>86</del>	<del>.19454</del>	<del>.79102</del>	<del>.12112-</del>

# NAVORD Report 6699

29	1	.22606	.91922	.04682-
29	2	.28908	1.17544	.10168
29	3	.20613	.83815	.09380-
29	4	.19723	.80196	.11478-
29	5	.30118	1.22466	.13020
29	6	.36918	1.50115	.29045
29	7	.19153	.77880	.12820-
29	8	.18797	.76433	.13659-
29	9	.29068	1.18195	.10545
29	10	.41243	1.67703	.39238
29	11	.43717	1.77763	.45069
29	12	.18815	.76505	.13617-
29	13	.18637	.75781	.14036-
29	14	.28463	1.15734	.09119
29	15	.41973	1.70670	.40958
29	16	.50909	2.07005	.62016
29	17	.40442	1.64446	.37351
29	18	.18761	.76288	.13743-
29	19	.15308	.62246	.21881-
29	20	.14578	.59279	.23601-
29	21	.14365	.58410	.24104-
29	22	.14222	.57831	.24440-
29	23	.13493	.54863	.26160-
29	24	.12638	.51389	.28173-
29	25	.11713	.47626	.30354-
29	26	.14650	.59568	.23433-
29	27	.18423	.74913	.14540-
29	28	.23674	.96264	.02165-
29	29	.28587	1.16241	.09413
29	30	.35601	1.44759	.25941
29	31	.42044	1.70960	.41126
29	32	.50179	2.04037	.60296
29	33	.53205	2.16342	.67428
29	34	.50820	2.06643	.61807
29	35	.43886	1.78449	.45466
29	36	.18577	.75537	.24178-
29	37	.14462	.58807	.23874-
29	38	.13821	.56200	.25385-
29	39	.13038	.53013	.272 2-
29	40	.11755	.47799	.30254-
29	41	.18577	.75537	.14178-
29	42	.18559	.75464	.14220-
29	43	.13251	.53882	.26728-
29	44	.12254	.49827	.29079-
29	45	.11844	.48161	.30044-
29	46	.18880	.76768	.13465-

# NAVORD Report 6699

29	47	.19271	.78361	.12541-
29	48	.11969	.48668	.29750-
29	49	.12931	.52579	.27484-
29	50	.20055	.81548	.10694-
29	51	.20946	.85169	.08596-
29	52	.19004	.77275	.13171-
29	53	.22851	.92918	.04104-
29	81	.24553	.99838	.00094-
29	82	.22824	.92809	.04170-
29	83	.38229	1.55448	.32136
<del>29</del>	<del>84</del>	<del>.20999</del>	<del>.85119</del>	<del>.08624-</del>
<del>29</del>	<del>85</del>	<del>.22449</del>	<del>.91202</del>	<del>.05092-</del>
<del>29</del>	<del>86</del>	<del>.21896</del>	<del>.89835</del>	<del>.06955-</del>

# NAVORD Report 6699

32	1	.22804	.92726	.04216-
32	2	.28908	1.17545	.10169
32	3	.20776	.84479	.08996-
32	4	.19695	.80085	.11542-
32	5	.29894	1.21553	.12492
32	6	.36945	1.50227	.29110
32	7	.19089	.77518	.12972-
32	8	.18672	.75923	.13954-
32	9	.29098	1.18316	.10615
32	10	.41248	1.67724	.39250
32	11	.43618	1.77359	.44834
32	12	.18691	.76000	.13910-
32	13	.18691	.76000	.13910-
32	14	.28567	1.16158	.09365
32	15	.41988	1.70730	.40993
32	16	.50840	2.06726	.61855
32	17	.40282	1.63793	.36972
32	18	.18387	.74767	.14624-
32	19	.15184	.61740	.22174-
32	20	.14388	.58503	.24050-
32	21	.14274	.58040	.24318-
32	22	.14065	.57193	.24810-
32	23	.13402	.54495	.26373-
32	24	.12606	.51257	.28249-
32	25	.11525	.46864	.30796-
32	26	.14312	.58195	.24229-
32	27	.18255	.74227	.14937-
32	28	.23543	.95732	.02474-
32	29	.28453	1.15695	.09097
32	30	.35334	1.43675	.25313
32	31	.41988	1.70730	.40993
32	32	.50063	2.03565	.60023
32	33	.53058	2.15744	.67081
32	34	.50594	2.05724	.61274
32	35	.43930	1.78628	.45570
32	36	.18532	.75354	.14284-
32	37	.14378	.58463	.24074-
32	38	.13771	.55995	.25504-
32	39	.13069	.53141	.21158-
32	40	.11703	.47588	.30376-
32	41	.18702	.76048	.13882-
32	42	.18551	.75431	.14239-
32	43	.13126	.53372	.27024-
32	44	.12443	.50596	.28633-
32	45	.11760	.47819	.30242-
32	46	.18949	.77051	.13301-



# NAVORD Report 6699

32	47	.19328	.78593	.12407-
32	48	.12102	.49207	.29438-
32	49	.12898	.52447	.27560-
32	50	.20049	.81524	.10700-
32	51	.21036	.85535	.08384-
32	52	.19082	.77590	.12988-
32	53	.23027	.93633	.03690-
32	81	.24419	.99291	.00411-
32	82	.22748	.92496	.04349-
32	83	.38090	1.54881	.31807
32	84	.19045	.77441	.13075-
<del>32</del>	<del>85</del>	<del>.04899</del>	<del>.19920</del>	<del>.46412-</del>
32	86	.19406	.78907	.12225-

# NAVORD Report 6699

33	1	.22634	.92032	.04618-
33	2	.28813	1.17160	.09945
33	3	.20586	.83708	.09442-
33	4	.19563	.79545	.11855-
33	5	.29837	1.21322	.12358
33	6	.36737	1.49379	.28618
33	7	.18994	.77233	.13195-
33	8	.18539	.75383	.14267-
33	9	.29079	1.18239	.10571
33	10	.41173	1.67415	.39072
33	11	.43561	1.77127	.44700
33	12	.18577	.75537	.14178-
33	13	.18520	.75306	.14312-
33	14	.28472	1.15773	.09141
33	15	.41741	1.69728	.40412
33	16	.50859	2.06803	.61899
33	17	.40206	1.63484	.36793
33	18	.18312	.74458	.14803-
33	19	.15165	.61663	.22219-
33	20	.14445	.58734	.20016-
33	21	.14198	.57732	.24497-
33	22	.14065	.57193	.20810-
33	23	.13402	.54495	.26373-
33	24	.12701	.51643	.28026-
33	25	.11525	.46864	.30796-
33	26	.14350	.58349	.24140-
33	27	.18198	.73996	.15071-
33	28	.23506	.95578	.02563-
33	29	.28491	1.15850	.09186
33	30	.35372	1.43829	.25402
33	31	.42120	1.71269	.41305
33	32	.50063	2.03565	.60023
33	33	.53267	2.16592	.67573
33	34	.50575	2.05647	.61229
33	35	.43702	1.77702	.45033
33	36	.18380	.74737	.14642-
33	37	.14283	.58077	.24297-
33	38	.13638	.55455	.25817-
33	39	.12860	.52293	.27640-
33	40	.11552	.46971	.30134-
33	41	.18399	.74814	.14597-
33	42	.18399	.74814	.14597-
33	43	.13088	.53218	.27113-
33	44	.12215	.49670	.29169-
33	45	.11703	.47588	.30376-
33	46	.18797	.76434	.13658-

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33	47	.19234	.78207	.12630-
33	48	.11893	.48359	.29929-
33	49	.12803	.52061	.27784-
33	50	.19916	.80984	.11021-
33	51	.20865	.84840	.08786-
33	52	.18873	.76742	.13480-
33	53	.22838	.92862	.04137-
33	81	.24400	.99213	.00456-
33	82	.22729	.92419	.04391-
33	83	.38090	1.54881	.31807
33	84	.18912	.76900	.13988-
<del>33</del>	<del>85</del>	<del>.04785</del>	<del>.10457</del>	<del>.46688-</del>
33	86	.19292	.78444	.12493-

# NAVORD Report 6699

34	1	.14465	.78183	.10062-
34	2	.19423	1.04995	.02304
34	3	.13630	.73681	.12138-
34	4	.13214	.71429	.13176-
34	5	.21127	1.14205	.06551
34	6	.27293	1.47566	.21937
34	7	.12987	.70201	.13743-
34	8	.12740	.68871	.14356-
34	9	.20938	1.13182	.06079
34	10	.30819	1.66600	.30715
34	11	.35287	1.90751	.41853
34	12	.12816	.69280	.14167-
34	13	.12759	.68973	.14309-
34	14	.20635	1.11544	.05324
34	15	.31615	1.70898	.32697
34	16	.41194	2.22679	.56578
34	17	.33015	1.78471	.36190
34	18	.12722	.68769	.14403-
34	19	.08632	.46664	.24598-
34	20	.08367	.45232	.25258-
34	21	.08254	.44618	.25542-
34	22	.08424	.45539	.25117-
34	23	.08386	.45334	.25211-
34	24	.08292	.44822	.25447-
34	25	.07534	.40729	.27335-
34	26	.09465	.51167	.22521-
34	27	.12494	.67541	.14970-
34	28	.16564	.89543	.04823-
34	29	.20502	1.10828	.04994
34	30	.26162	1.41426	.19105
34	31	.31766	1.71717	.33075
34	32	.38941	2.10502	.50962
34	33	.43087	2.32913	.61298
34	34	.42708	2.30866	.60354
34	35	.36598	1.97835	.45120
34	36	.12502	.67583	.14950-
34	37	.08259	.44646	.25529-
34	38	.07918	.42803	.26379-
34	39	.08145	.44032	.25812-
34	40	.07463	.40345	.2512-
34	41	.12483	.67481	.14997-
34	42	.12578	.67993	.14761-
34	43	.07634	.41267	.27087-
34	44	.07880	.42598	.26473-
34	45	.07463	.40345	.27512-
34	46	.12843	.69427	.14100-

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34	47	.13146	.71065	.13344-
34	48	.07842	.42393	.26567-
34	49	.07956	.43008	.26284-
34	50	.13374	.72294	.12778-
34	51	.13412	.72498	.12683-
34	52	.11631	.62873	.17122-
34	53	.14359	.77615	.10322-
34	81	.17351	.93794	.02862-
34	82	.18337	.99124	.00404-
34	83	.30227	1.63396	.29237
34	84	.11245	.60737	.18085-
<del>34</del>	<del>85</del>	<del>.04703</del>	<del>.25422</del>	<del>.34395-</del>
34	86	.17616	.95229	.02200-

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35	1	.14406	.77876	.10203-
35	2	.19234	1.03972	.01832
35	3	.13592	.73476	.12232-
35	4	.13138	.71020	.13365-
35	5	.20881	1.12875	.05938
35	6	.27185	1.46952	.21654
35	7	.12835	.69383	.14120-
35	8	.12570	.67950	.14781-
35	9	.20938	1.13182	.06079
35	10	.30706	1.65986	.30432
35	11	.35249	1.90546	.41759
35	12	.12740	.68871	.14356-
35	13	.12665	.68462	.14545-
35	14	.20483	1.10726	.04947
35	15	.31539	1.70489	.32509
35	16	.41118	2.22270	.56389
35	17	.32940	1.78062	.36001
35	18	.12570	.67950	.14781-
35	19	.08405	.45436	.25164-
35	20	.08254	.44618	.25542-
35	21	.08159	.44106	.25778-
35	22	.08216	.44413	.25636-
35	23	.08216	.44413	.25636-
35	24	.08216	.44413	.25636-
35	25	.07421	.40115	.27618-
35	26	.09333	.50451	.22851-
35	27	.12438	.67234	.15111-
35	28	.16470	.89031	.05059-
35	29	.20407	1.10316	.04758
35	30	.25973	1.40403	.18633
35	31	.31709	1.71410	.32933
35	32	.38922	2.10399	.50915
35	33	.42973	2.32299	.61014
35	34	.42670	2.30662	.60259
35	35	.36692	1.98347	.45356
35	36	.12597	.68095	.147.4-
35	37	.08411	.45465	.25151-
35	38	.08013	.43315	.26142-
35	39	.08297	.44851	.27.34-
35	40	.07558	.40857	.27276-
35	41	.12616	.68198	.14667-
35	42	.12635	.68300	.14620-
35	43	.07729	.41779	.26851-
35	44	.07956	.43008	.26284-
35	45	.07501	.40550	.27418-
35	46	.12938	.69939	.13864-

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35	47	.13203	.71272	.13203-
35	48	.07861	.42496	.26520-
35	49	.08013	.43315	.26142-
35	50	.13449	.72703	.12589-
35	51	.13563	.73318	.12306-
35	52	.11763	.63590	.16792-
35	53	.14359	.77618	.10322-
35	81	.17427	.94204	.02673-
35	82	.18318	.99022	.00451-
35	83	.30265	1.63601	.29332
35	84	.11169	.60377	.18274-
<del>35</del>	<del>85</del>	<del>.05234</del>	<del>.26292</del>	<del>.33071-</del>
35	86	.17578	.95024	.02295-

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38	1	.30604	.72311	.28408-
38	2	.39054	.92278	.07923-
38	3	.28167	.66555	.34314-
38	4	.26493	.62598	.38374-
38	5	.38464	.90884	.09353-
38	6	.49464	1.16876	.17314
38	7	.25769	.60889	.40127-
38	8	.25027	.59135	.41927-
38	9	.36332	.85847	.14521-
38	10	.50016	1.18180	.18652
38	11	.60370	1.42644	.43751
38	12	.24894	.58820	.42250-
38	13	.24723	.58415	.42665-
38	14	.35533	.83958	.16459-
38	15	.49636	1.17281	.17730
38	16	.65128	1.53886	.55286
38	17	.58581	1.38416	.39414
38	18	.24551	.58011	.43080-
38	19	.25636	.60574	.40450-
38	20	.24799	.58595	.42480-
38	21	.24551	.58011	.43080-
38	22	.24475	.57831	.43265-
38	23	.23657	.55897	.45249-
38	24	.21069	.49781	.51523-
38	25	.18385	.43441	.58029-
38	26	.19774	.46723	.54661-
38	27	.24323	.57471	.43634-
38	28	.29976	.70827	.29931-
38	29	.35114	.82969	.17474-
38	30	.42251	.99832	.00172-
38	31	.49350	1.16506	.17038
38	32	.59475	1.40530	.41583
38	33	.66327	1.56719	.58192
38	34	.68554	1.61980	.63591
38	35	.62522	1.47728	.48968
38	36	.24662	.58272	.42812-
38	37	.24872	.58767	.42304-
38	38	.23938	.56563	.44566-
38	39	.22910	.54133	.47059-
38	40	.17978	.42478	.5. J16-
38	41	.24795	.58581	.42488-
38	42	.24853	.58722	.42350-
38	43	.23253	.54943	.46228-
38	44	.21310	.50353	.50937-
38	45	.17483	.41308	.60217-
38	46	.25424	.60072	.40965-



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38	47	.26090	.61647	.39349-
38	48	.19520	.46123	.55277-
38	49	.19025	.44953	.56477-
38	50	.27100	.64032	.36902-
38	51	.28509	.67362	.33486-
38	52	.25253	.59667	.41380-
38	53	.30813	.72807	.27900-
38	81	.31952	.75496	.25140-
38	82	.44725	1.05677	.05824
38	83	.56868	1.34370	.35263
38	84	.29702	.70181	.30594-
38	85	.30979	.73199	.27497-
38	86	.42303	.99956	.00045-

# NAVORD Report 6699

39	1	.30566	.72221	.28500-
39	2	.39130	.92457	.07738-
39	3	.26091	.66375	.34498-
39	4	.26531	.62688	.38282-
39	5	.38350	.90614	.09630-
39	6	.49445	1.16831	.17268
39	7	.25655	.60619	.40404-
39	8	.25084	.59270	.41788-
39	9	.37322	.88185	.12122-
39	10	.50016	1.18180	.18652
39	11	.60294	1.42464	.43567
39	12	.24951	.58955	.42111-
39	13	.24704	.58371	.42711-
39	14	.35476	.83823	.16597-
39	15	.50340	1.18945	.19437
39	16	.65033	1.53661	.55055
39	17	.58543	1.38326	.39322
39	18	.24704	.58371	.42711-
39	19	.25560	.60394	.40635-
39	20	.24818	.58640	.42434-
39	21	.24589	.58101	.42988-
39	22	.24437	.57741	.43357-
39	23	.23562	.55672	.45479-
39	24	.21049	.49736	.51569-
39	25	.18537	.43800	.57660-
39	26	.19946	.47128	.54245-
39	27	.24342	.57516	.43588-
39	28	.30052	.71007	.29746-
39	29	.35171	.83104	.17335-
39	30	.42289	.99922	.00080-
39	31	.49426	1.16786	.17222
39	32	.59304	1.40125	.41168
39	33	.66365	1.56809	.58285
39	34	.68554	1.61980	.63591
39	35	.62312	1.47234	.48441
39	36	.24376	.57597	.43504-
39	37	.24757	.58497	.42581-
39	38	.23786	.56203	.44935-
39	39	.22720	.53683	.47511-
39	40	.18035	.42613	.50878-
39	41	.24814	.58632	.42442-
39	42	.24681	.58317	.42765-
39	43	.23062	.54493	.46690-
39	44	.21158	.49993	.51306-
39	45	.17235	.40723	.60817-
39	46	.25157	.59442	.41611-

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39	47	.25976	.61377	.39626-
39	48	.19387	.45808	.55600-
39	49	.18854	.44548	.56892-
39	50	.26966	.63717	.37225-
39	51	.28414	.67137	.33717-
39	52	.25081	.59262	.41796-
39	53	.30680	.72492	.28223-
39	81	.31675	.75316	.25325-
39	82	.44534	1.05226	.05362
39	83	.56849	1.34325	.35217
39	84	.29702	.70181	.30594-
39	85	.30846	.72883	.27821-
39	86	.41789	.98740	.01293-

# NAVORD Report 6699

41	1	.41908	.70572	.52367-
41	2	.46634	.78530	.38204-
41	3	.39182	.65982	.60533-
41	4	.36648	.61714	.68128-
41	5	.44309	.74615	.45171-
41	6	.33800	.90597	.16732-
41	7	.35218	.59307	.72411-
41	8	.33903	.57093	.76352-
41	9	.42327	.71278	.51110-
41	10	.52313	.88094	.21186-
41	11	.64033	1.07831	.13935
41	12	.33541	.56483	.77437-
41	13	.33236	.55969	.78350-
41	14	.41469	.69833	.53680-
41	15	.52180	.87869	.21586-
41	16	.64300	1.08280	.14734
41	17	.72266	1.21695	.38605
41	18	.33084	.55713	.78807-
41	19	.59803	1.00706	.01257
41	20	.59117	.99551	.00799-
41	21	.58697	.98845	.02055-
41	22	.57935	.97561	.04339-
41	23	.55496	.93454	.11649-
41	24	.52141	.87805	.21700-
41	25	.45891	.77279	.40431-
41	26	.36857	.62067	.67500-
41	27	.32779	.55199	.79721-
41	28	.37200	.62645	.66472-
41	29	.41488	.69865	.53623-
41	30	.47072	.79269	.36891-
41	31	.52294	.88062	.21243-
41	32	.59193	.99679	.00570-
41	33	.64453	1.08537	.15191
41	34	.70341	1.18454	.32837
41	35	.73342	1.23506	.41828
41	36	.33105	.55748	.78745-
41	37	.59306	.99871	.00230-
41	38	.58181	.97976	.03601-
41	39	.55187	.92935	.17573-
41	40	.44833	.75497	.43601-
41	41	.33372	.56197	.77945-
41	42	.33467	.56358	.77659-
41	43	.58353	.98265	.03087-
41	44	.54654	.92035	.14173-
41	45	.44661	.75208	.44116-
41	46	.33982	.57225	.76116-

# NAVORD Report 6699

41	47	.35183	.59246	.72516-
41	48	.54615	.91971	.14287-
41	49	.45595	.76782	.41316-
41	50	.36595	.61625	.68287-
41	51	.38902	.65510	.61373-
41	52	.47941	.80732	.34287-
41	53	.41572	.70006	.53373-
41	81	.49480	.83324	.29674-
41	82	.60209	1.01391	.02474
41	83	.71586	1.20550	.36568
41	84	.61354	1.03319	.05907
41	85	.60018	1.01069	.01902
41	86	.61221	1.03094	.05506

# NAVORD Report 6699

42	1	.54356	.52123	.40818-
42	2	.56221	.84941	.34384-
42	3	.52433	.75218	.47449-
42	4	.50854	.76832	.52898-
42	5	.53747	.81203	.42919-
42	6	.60788	.91842	.18627-
42	7	.49712	.75107	.56837-
42	8	.48570	.73381	.60776-
42	9	.51501	.77810	.50666-
42	10	.59076	.89254	.24536-
42	11	.69201	1.04551	.10391
42	12	.47923	.72404	.63008-
42	13	.47390	.71599	.64846-
42	14	.50359	.76084	.54605-
42	15	.58600	.88535	.26177-
42	16	.69125	1.04436	.10129
42	17	.76604	1.15737	.35930
42	18	.47028	.71052	.66094-
42	19	.65908	.99577	.00967-
42	20	.65470	.98915	.02477-
42	21	.65280	.98628	.03133-
42	22	.65147	.98426	.03593-
42	23	.63110	.95350	.10618-
42	24	.59285	.89570	.23814-
42	25	.53861	.81375	.42525-
42	26	.49331	.74531	.58150-
42	27	.46743	.70621	.67079-
42	28	.47847	.72289	.63271-
42	29	.50378	.76113	.54539-
42	30	.54318	.82065	.40949-
42	31	.58581	.88506	.26243-
42	32	.64367	.97248	.06285-
42	33	.69182	1.04522	.10326
42	34	.74358	1.12344	.28183
42	35	.77586	1.17220	.39316
42	36	.46849	.70781	.56714-
42	37	.66312	1.00186	.00425
42	38	.65159	.98460	.03516-
42	39	.61817	.93396	.15779-
42	40	.52752	.79700	.46349-
42	41	.47115	.71183	.65794-
42	42	.47534	.71816	.54349-
42	43	.65493	.88949	.02400-
42	44	.60713	.91727	.18889-
42	45	.52752	.79700	.46349-
42	46	.48029	.72565	.62641-

# NAVORD Report 6649

42	47	.49058	.74118	.59093-
42	48	.60827	.91900	.18495-
42	49	.54123	.81772	.41619-
42	50	.50238	.75902	.55020-
42	51	.51857	.78348	.49436-
42	52	.55866	.85915	.32159-
42	53	.53533	.80880	.43655-
42	81	.59766	.90297	.22154-
42	82	.66820	1.00954	.02179
42	83	.76276	1.15240	.34797
42	84	.67640	1.02193	.05006
42	85	.66477	1.00436	.00995
42	86	.68116	1.02913	.06651

# NAVORD Report 6699

43	1	.63301	.87492	.36886-
43	2	.64633	.82334	.31456-
43	3	.61816	.85441	.42937-
43	4	.60560	.83704	.48057-
43	5	.62692	.86651	.39368-
43	6	.67887	.93832	.18190-
43	7	.59837	.82705	.51005-
43	8	.59057	.81626	.54186-
43	9	.60827	.84073	.46971-
43	10	.66251	.91570	.24861-
43	11	.74492	1.02960	.08729
43	12	.58657	.81074	.55815-
43	13	.58200	.80442	.57677-
43	14	.59913	.82510	.50695-
43	15	.65813	.90965	.26646-
43	16	.74263	1.02644	.07798
43	17	.80791	1.11667	.31107
43	18	.58048	.80232	.58297-
43	19	.72208	.99803	.00580-
43	20	.71903	.99382	.01821-
43	21	.71637	.99014	.02907-
43	22	.71561	.98909	.03218-
43	23	.69562	.96147	.11363-
43	24	.66156	.91438	.25249-
43	25	.62083	.85809	.41851-
43	26	.59285	.81942	.53255-
43	27	.57819	.79916	.59228-
43	28	.58467	.80811	.56590-
43	29	.59799	.82652	.51160-
43	30	.62501	.86388	.40144-
43	31	.65775	.90912	.26801-
43	32	.70419	.97331	.07872-
43	33	.74301	1.02697	.07954
43	34	.78831	1.08958	.26417
43	35	.81318	1.12396	.36556
43	36	.57780	.79862	.59390-
43	37	.72425	1.00103	.00305
43	38	.71492	.98814	.03499-
43	39	.88273	.94365	.10118-
43	40	.61322	.84758	.44951-
43	41	.57932	.80072	.58769-
43	42	.58161	.80388	.57837-
43	43	.71992	.72366	.01869-
43	44	.67397	.92154	.20188-
43	45	.61398	.84863	.44641-
43	46	.58542	.80914	.56285-



# NAVORD Report 6699

43	47	.59341	.82020	.53024-
43	48	.67683	.93549	.19024-
43	49	.62528	.86521	.39750-
43	50	.60196	.83205	.49531-
43	51	.61322	.84758	.44951-
43	52	.65055	.89917	.29736-
43	53	.62731	.86705	.39207-
43	81	.69050	.95439	.13449-
43	82	.72615	1.00367	.01082
43	83	.80451	1.11197	.33020
43	84	.73607	1.01737	.05123
43	85	.72253	.99866	.00395-
43	86	.73893	1.02132	.06288

# NAVORD Report 6699

44	1	.73235	.92050	.33643-
44	2	.74149	.93199	.28784-
44	3	.72170	.90711	.39313-
44	4	.71275	.89586	.44071-
44	5	.72741	.91428	.36276-
44	6	.76336	.95950	.17142-
44	7	.70837	.89036	.46400-
44	8	.70209	.88247	.49740-
44	9	.71351	.89682	.43666-
44	10	.75063	.94347	.23925-
44	11	.81039	1.01858	.07864
44	12	.69943	.87912	.51158-
44	13	.69638	.87529	.52778-
44	14	.70742	.88917	.46906-
44	15	.74720	.93916	.25747-
44	16	.80791	1.01547	.06548
44	17	.85759	1.07791	.32971
44	18	.69505	.87362	.53486-
44	19	.79668	1.00136	.00575
44	20	.79516	.99945	.00235-
44	21	.79440	.99849	.00640-
44	22	.79231	.99586	.01753-
44	23	.77004	.96787	.13598-
44	24	.74415	.93534	.27367-
44	25	.71865	.90328	.40933-
44	26	.70190	.88223	.49842-
44	27	.69334	.87146	.54397-
44	28	.69734	.87649	.52271-
44	29	.70609	.88749	.47614-
44	30	.72322	.90902	.38503-
44	31	.74606	.93773	.26354-
44	32	.77860	.97863	.09043-
44	33	.80620	1.01332	.05637
44	34	.83970	1.05542	.23455
44	35	.85965	1.08050	.34070
44	36	.69092	.86843	.55684-
44	37	.79719	1.00199	.00843
44	38	.79147	.99481	.02196-
44	39	.76138	.95699	.18 02-
44	40	.71301	.89619	.43933-
44	41	.67244	.87034	.54873-
44	42	.69416	.87249	.53962-
44	43	.79338	.93720	.01183-
44	44	.75777	.95244	.20127-
44	45	.71587	.89978	.42413-
44	46	.69701	.87608	.52442-

# NAVORD Report 6699

44	47	.70273	.88327	.49403-
44	48	.76196	.95771	.17898-
44	49	.72634	.91295	.36841-
44	50	.70958	.89188	.45756-
44	51	.71739	.90170	.41603-
44	52	.74386	.93497	.27522-
44	53	.72768	.91462	.36132-
44	81	.78525	.98699	.05505-
44	82	.79898	1.00425	.01797
44	83	.85636	1.07637	.32321
44	84	.80775	1.01527	.06461
44	85	.79707	1.00185	.00783
44	86	.80794	1.01551	.06563

# NAVORD Report 6699

45	1	.79722	.94378	.32512-
45	2	.80500	.95300	.27183-
45	3	.78848	.93345	.38490-
45	4	.78165	.92536	.43168-
45	5	.79307	.93884	.35371-
45	6	.81999	.97075	.16917-
45	7	.77786	.92086	.45767-
45	8	.77330	.91547	.48886-
45	9	.78336	.92738	.41999-
45	10	.81050	.95951	.23415-
45	11	.85587	1.01322	.07645
45	12	.77178	.91367	.49926-
45	13	.76988	.91143	.51226-
45	14	.77937	.92266	.44728-
45	15	.80804	.95659	.25104-
45	16	.85378	1.01075	.06216
45	17	.89079	1.05457	.31558
45	18	.77026	.91188	.50966-
45	19	.84847	1.00446	.02177
45	20	.84695	1.00266	.01537
45	21	.84600	1.00153	.00888
45	22	.84315	.99816	.01062-
45	23	.82379	.97524	.14318-
45	24	.80443	.95232	.27573-
45	25	.78583	.93030	.40309-
45	26	.77444	.91682	.48107-
45	27	.76874	.91008	.52005-
45	28	.77216	.91412	.49666-
45	29	.77899	.92221	.44988-
45	30	.79076	.93614	.36930-
45	31	.80747	.95592	.25494-
45	32	.83157	.98446	.08989-
45	33	.85359	1.01052	.06086
45	34	.87846	1.03996	.23110
45	35	.89364	1.05793	.32504
45	36	.76828	.90953	.52323-
45	37	.84824	1.00419	.02424
45	38	.84672	1.00239	.01384
45	39	.82697	.97901	.1140-
45	40	.78708	.93170	.39449-
45	41	.77075	.91245	.50632-
45	42	.77303	.91515	.49072-
45	43	.84976	1.00599	.03464
45	44	.82773	.97991	.11620-
45	45	.79050	.93584	.37108-
45	46	.77417	.91650	.48292-

NAVORD Report 6699

45	47	.77949	.92279	.44650-
45	48	.82868	.98103	.10970-
45	49	.79829	.94506	.31776-
45	50	.78385	.92797	.41659-
45	51	.79050	.93584	.37108-
45	52	.81064	.95967	.23324-
45	53	.79715	.94371	.32557-
45	81	.84001	.99444	.03213-
45	82	.84533	1.00075	.00432
45	83	.88830	1.05162	.29852
45	84	.85294	1.00975	.05639
45	85	.84381	.99895	.00609-
45	86	.85104	1.00750	.04337

# NAVORD Report 6699

48	1	.46024	.78865	.36301-
48	2	.43489	.74522	.43761-
48	3	.50217	.86049	.23961-
48	4	.41660	.71387	.49145-
48	5	.40269	.69003	.53240-
48	6	.48463	.83045	.29121-
48	7	.60165	1.03096	.05317
48	8	.39621	.67892	.55147-
48	9	.60355	1.03422	.05878
48	10	.59458	1.01953	.03354
48	11	.56506	.96826	.05452-
48	12	.50274	.86147	.23793-
48	13	.42174	.72268	.47631-
48	14	.39773	.68154	.54698-
48	15	.41965	.71909	.48248-
48	16	.47739	.81804	.31253-
48	17	.53628	.91875	.13921-
48	18	.59479	1.01920	.03298
48	19	.66435	1.13840	.23771
48	20	.39735	.68088	.54810-
48	21	.59136	1.01332	.02289
48	22	.50140	.85919	.24186-
48	23	.40383	.69199	.52903-
48	24	.41869	.71746	.48528-
48	25	.50865	.87160	.22054-
48	26	.43566	.74652	.43536-
48	27	.46005	.78832	.36357-
48	81	.48793	.83610	.28151-
48	82	.58892	1.00914	.01571
48	83	.68952	1.18153	.31180
48	84	.61316	1.05069	.08706
48	85	.58292	1.00914	.01171
48	86	.59865	1.02583	.04436

# NAVOPD Report 6699

49	1	.56868	.86600	.29985-
49	2	.55269	.84166	.35433-
49	3	.53885	.89672	.23111-
49	4	.54089	.82369	.39454-
49	5	.53214	.81035	.42438-
49	6	.57077	.85919	.29272-
49	7	.65251	1.00889	.01988
49	8	.52757	.80340	.43994-
49	9	.67107	1.02193	.04907
49	10	.66403	1.01120	.02507
49	11	.63110	.96106	.08713-
49	12	.57991	.88310	.26159-
49	13	.53623	.81963	.40362-
49	14	.57928	.80601	.43411-
49	15	.53100	.80862	.42827-
49	16	.56392	.85876	.31607-
49	17	.60731	.92484	.16820-
49	18	.65432	.99642	.00800-
49	19	.71599	1.07033	.20213
49	20	.52928	.80101	.43411-
49	21	.66079	1.00629	.01405
49	22	.58056	.68455	.25835-
49	23	.55271	.81122	.42243-
49	24	.54108	.82294	.39190-
49	25	.59247	.90223	.21879-
49	26	.55307	.80101	.35304-
49	27	.56645	.80101	.30050-
49	28	.56641	.80101	.23942-
49	29	.55924	.80101	.00875
49	30	.74293	.80101	.29394
49	31	.68116	.3733	.08346
49	32	.65695	1.00003	.00095
49	33	.67220	1.00003	.05292

# NAVCED Report 6699

50	1	.65459	.91042	.25895-
50	2	.64186	.89271	.31014-
50	3	.66808	.92919	.20470-
50	4	.63311	.88035	.34529-
50	5	.62722	.87235	.36898-
50	6	.65326	.90857	.26430-
50	7	.72358	1.00638	.01843
50	8	.62475	.86691	.37892-
50	9	.73727	1.02541	.07345
50	10	.72853	1.01325	.03830
50	11	.69697	.96937	.08855-
50	12	.65782	.91491	.24596-
50	13	.63083	.87737	.35446-
50	14	.62551	.86997	.37586-
50	15	.62646	.87129	.37204-
50	16	.64946	.90328	.27958-
50	17	.68120	.94743	.15197-
50	18	.71864	.99950	.00144-
50	19	.76730	1.06718	.17418
50	20	.62608	.37076	.37357-
50	21	.72625	1.01008	.02913
50	22	.66029	.91835	.23602-
50	23	.62855	.87420	.36363-
50	24	.63539	.88372	.33613-
50	25	.67113	.93342	.19247-
50	26	.64338	.89482	.30403-
50	27	.65554	.91174	.25513-
50	81	.68635	.95458	.13128-
50	82	.72157	1.00357	.01032
50	83	.79011	1.09890	.28587
50	84	.74346	1.03402	.09834
50	85	.72100	1.00278	.00802
50	86	.73489	1.02211	.06390



# NAVOED Report 6699

51	1	.74578	.94077	.24557-
51	2	.73591	.92852	.29738-
51	3	.75356	.95079	.20473-
51	4	.72850	.91917	.33624-
51	5	.72509	.91486	.35417-
51	6	.74274	.93714	.26152-
51	7	.79209	.99941	.00248-
51	8	.72262	.91175	.36712-
51	9	.80462	1.01521	.06328
51	10	.79646	1.00491	.02044
51	11	.77121	.97306	.11207-
51	12	.74464	.93953	.25155-
51	13	.72661	.91678	.34620-
51	14	.72376	.91319	.36115-
51	15	.72414	.91367	.35915-
51	16	.73932	.93283	.27945-
51	17	.76134	.96061	.16388-
51	18	.78754	.99366	.02639-
51	19	.82436	1.04012	.16690
51	20	.72414	.91367	.35915-
51	21	.79494	1.00300	.01247
51	22	.74692	.94241	.23960-
51	23	.72566	.91558	.35118-
51	24	.73021	.92133	.32727-
51	25	.75470	.95222	.19875-
51	26	.73572	.92828	.29838-
51	27	.74445	.93929	.25255-
51	81	.78145	.98598	.05834-
51	82	.79419	1.00205	.00853
51	83	.84438	1.06538	.27200
51	84	.81244	1.02508	.10433
51	85	.79438	1.00229	.00952
51	86	.80407	1.01452	.06042

# NAVORD Report 6609

52	1	.80797	.96034	.22391-
52	2	.80172	.95292	.26583-
52	3	.81441	.96799	.18071-
52	4	.79699	.94729	.29760-
52	5	.79434	.94414	.31538-
52	6	.80664	.95877	.23280-
52	7	.84280	1.00175	.00985
52	8	.79226	.94167	.32936-
52	9	.85302	1.01390	.07846
52	10	.84545	1.00490	.02764
52	11	.82595	.98172	.10322-
52	12	.80740	.95967	.22772-
52	13	.79472	.94459	.31284-
52	14	.79301	.94257	.32427-
52	15	.79358	.94324	.32046-
52	16	.80418	.95584	.24932-
52	17	.81933	.97384	.14768-
52	18	.83920	.99747	.01428-
52	19	.86552	1.02875	.16231
52	20	.79282	.94234	.32555-
52	21	.84394	1.00310	.01748
52	22	.80835	.96079	.22137-
52	23	.79377	.94347	.31919-
52	24	.79737	.94774	.29505-
52	25	.81478	.96844	.17817-
52	26	.80210	.95337	.26329-
52	27	.80835	.96079	.22137-
52	81	.83910	.99735	.01497-
52	82	.84460	1.00389	.02194
52	83	.88120	1.04739	.26755
52	84	.85863	1.02056	.11611
52	85	.84422	1.00343	.01939
52	86	.85067	1.01110	.06266

# NAVORD Report 6699

56	1	.15050	.81356	.08598-
56	2	.14293	.77262	.10486-
56	3	.21598	1.18912	.08722
56	4	.13933	.75318	.11383-
56	5	.13668	.73885	.12044-
56	6	.22244	1.20243	.09336
56	7	.30611	1.65475	.30196
56	8	.13460	.72760	.12563-
56	9	.09995	.54033	.21200-
56	10	.09295	.50246	.22946-
56	11	.08254	.44618	.25542-
56	12	.07818	.42264	.26627-
56	13	.10469	.56591	.20020-
56	14	.13611	.73570	.12185-
56	15	.17227	.93124	.03171-
56	16	.22301	1.20550	.09477
56	17	.27166	1.46850	.21606
56	18	.31537	1.70489	.32509
56	19	.32750	1.77038	.35529
56	20	.13592	.73476	.12232-
56	21	.08292	.44827	.25447-
56	22	.07989	.43185	.26202-
56	23	.13536	.73169	.12374-
56	24	.14066	.76034	.11053-
56	25	.08746	.47278	.24314-
56	26	.14179	.76648	.10769-
56	27	.14804	.80025	.09212-
56	81	.16896	.91334	.03997-
56	82	.17901	.96766	.01491-
56	83	.28141	1.52120	.24037
56	84	.12136	.65604	.15863-
56	85	.16005	.86516	.06219-
56	86	.11814	.63862	.16666-

# NAVORD Report 6699

58	1	.33666	.79547	.20984-
58	2	.31543	.74530	.26131-
58	3	.44130	1.04271	.04382
58	4	.29799	.70410	.30359-
58	5	.29496	.69693	.31094-
58	6	.42898	1.01360	.01395
58	7	.56565	1.33653	.34527
58	8	.28851	.68170	.32657-
58	9	.31164	.73635	.27050-
58	10	.29913	.70679	.30083-
58	11	.26046	.61541	.39458-
58	12	.19221	.45417	.56001-
58	13	.23923	.56525	.44604-
58	14	.29135	.68842	.31967-
58	15	.34538	.81607	.18871-
58	16	.42386	1.00150	.0154
58	17	.50120	1.18425	.18903
58	18	.57209	1.35176	.36090
58	19	.59484	1.40551	.41604
58	20	.28946	.68374	.32427-
58	21	.27609	.65707	.35184-
58	22	.19866	.46940	.54439-
58	23	.29079	.68708	.32105-
58	24	.30311	.71619	.29113-
58	25	.22482	.53121	.48097-
58	26	.30917	.73052	.27648-
58	27	.33040	.78069	.22501-
58	81	.31767	.75060	.25588-
58	82	.44584	1.05344	.05483
58	83	.54742	1.29347	.30109
58	84	.34027	.80399	.20110-
58	85	.29128	.68824	.31986-
58	86	.25337	.83495	.16934-

# NAVORD Report 6699

59	1	.33628	.79457	.21076-
59	2	.31486	.74396	.26269-
59	3	.44073	1.04137	.04244
59	4	.29761	.70320	.30451-
59	5	.29420	.69514	.31278-
59	6	.42841	1.01225	.01257
59	7	.56432	1.33340	.34206
59	8	.28851	.68170	.32657-
59	9	.31088	.73456	.27234-
59	10	.29637	.70499	.30267-
59	11	.26008	.61452	.39550-
59	12	.19184	.45327	.56093-
59	13	.23847	.56346	.44788-
59	14	.29117	.68797	.32013-
59	15	.34462	.81428	.19054-
59	16	.42367	1.00106	.00108
59	17	.49968	1.18066	.18536
59	18	.57096	1.34907	.35814
59	19	.59446	1.40461	.41512
59	20	.28927	.68349	.32473-
59	21	.27733	.65528	.35368-
59	22	.19904	.47029	.54347-
59	23	.29117	.68797	.32013-
59	24	.30216	.71395	.29348-
59	25	.22330	.52763	.48465-
59	26	.30860	.72913	.27785-
59	27	.32984	.77935	.22639-
59	81	.31634	.74746	.25910-
59	82	.44432	1.04985	.05115
59	83	.54610	1.29033	.29787
59	84	.33951	.80219	.20294-
59	85	.28995	.68510	.32309-
59	86	.35014	.82732	.17717-

# NAVOCD Report 0699

67	1	.34246	1.85123	.39257
67	2	.33557	1.81401	.37541
67	3	.33267	1.79833	.36818
67	4	.33521	1.81205	.37451
67	5	.36456	1.97072	.44768
67	6	.39700	2.14605	.52854
67	7	.40751	2.20286	.55474
67	8	.37689	2.03733	.47840
67	9	.30785	1.66415	.30629
67	10	.24208	1.30859	.14232
67	11	.15673	.84725	.07044-
<del>67</del>	<del>12</del>	<del>.31292</del>	<del>1.69157</del>	<del>.31894-</del>
67	13	.10274	.55537	.20506-
67	14	.10455	.56516	.20054-
<del>67</del>	<del>15</del>	<del>.63456</del>	<del>3.42918</del>	<del>1.12030-</del>
67	16	.10618	.57398	.19648-
67	17	.10527	.56908	.19873-
67	18	.10600	.57300	.19693-
67	19	.10564	.57104	.19783-
<del>67</del>	<del>20</del>	<del>.32615</del>	<del>1.76307</del>	<del>.31192-</del>
67	21	.10546	.57006	.19828-
67	81	.17152	.92717	.03359-
67	82	.18205	.98408	.00734-
67	83	.35901	1.94069	.43383
67	84	.11634	.62691	.17114-
67	85	.17279	.93404	.03042-
67	86	.14484	.78295	.10010-

# NAVORD Report 6699

66	1	.34192	1.84829	.39122
68	2	.33431	1.80715	.37225
68	3	.33193	1.79442	.36637
68	4	.33539	1.81303	.37496
68	5	.36420	1.96877	.44678
66	6	.39863	2.15487	.53261
68	7	.40787	2.20482	.55565
68	8	.37743	2.04027	.47976
68	9	.30713	1.66023	.30449
68	10	.25222	1.36344	.16762
68	11	.15528	.83942	.07406-
<del>68</del>	<del>12</del>	<del>.31003</del>	<del>1.67590</del>	<del>.31172-</del>
68	13	.10292	.55635	.20461-
68	14	.10401	.56222	.20190-
<del>68</del>	<del>15</del>	<del>.62730</del>	<del>3.39098</del>	<del>1.10269-</del>
68	16	.10509	.56810	.19919-
68	17	.10491	.56712	.19964-
68	18	.10401	.56222	.20190-
68	19	.10509	.55810	.19919-
<del>68</del>	<del>20</del>	<del>.23084</del>	<del>1.82164</del>	<del>.28354-</del>
68	21	.10437	.56418	.20099-
68	81	.17279	.93404	.03042-
68	82	.18259	.98702	.00598-
68	83	.36028	1.94756	.43700
68	84	.11779	.63676	.16752-
68	85	.17333	.93699	.02906-
68	86	.14502	.78393	.09965-

# NAVORD Report 6699

70	1	.78767	1.20666	.45558
70	2	.79113	1.21196	.46727
70	3	.79514	1.21810	.46080
70	4	.79241	1.21391	.47157
70	5	.76454	1.17122	.37745
70	6	.69987	1.07215	.15906
70	7	.60187	.92202	.17191-
70	8	.50441	.77272	.50104-
70	9	.40841	.62565	.82524-
<del>70</del>	<del>10</del>	<del>.65925</del>	<del>1.00992</del>	<del>.02187</del>
70	11	.48965	.75012	.55087-
<del>70</del>	<del>12</del>	<del>.69295</del>	<del>1.06155</del>	<del>.19568</del>
70	13	.56962	.87262	.28080-
70	14	.57290	.87765	.26973-
<del>70</del>	<del>15</del>	<del>.71462</del>	<del>1.09476</del>	<del>.20889</del>
70	16	.57891	.88686	.24943-
70	17	.57837	.88602	.25127-
70	18	.58019	.88881	.24512-
70	19	.58037	.88909	.24450-
<del>70</del>	<del>20</del>	<del>.66987</del>	<del>1.01578</del>	<del>.03479</del>
<del>70</del>	<del>21</del>	<del>.63010</del>	<del>.96527</del>	<del>.07656</del>
70	81	.60106	.92078	.17461-
70	82	.67569	1.03510	.07739
70	83	.79174	1.21289	.46930
70	84	.57551	.88164	.26092-
70	85	.65634	1.00547	.01207
70	86	.67313	1.03119	.06876



# NAVORD Report 6699

71	1	.82592	1.15388	.43855
71	2	.82719	1.15566	.44363
71	3	.82701	1.15820	.45087
71	4	.82519	1.15286	.43566
71	5	.79772	1.11449	.32628
71	6	.73423	1.02578	.07348
71	7	.64109	.89565	.29738-
71	8	.55249	.77188	.65014-
71	9	.46844	.65446	.98479-
<del>71</del>	<del>10</del>	<del>.71495</del>	<del>.99884</del>	<del>.00390-</del>
71	11	.52047	.72715	.77762-
<del>71</del>	<del>12</del>	<del>.74242</del>	<del>1.09722</del>	<del>.10600-</del>
71	13	.65582	.91624	.23871-
71	14	.66055	.92285	.21988-
<del>71</del>	<del>15</del>	<del>.76042</del>	<del>1.06238</del>	<del>.17779-</del>
71	16	.66455	.92844	.20394-
71	17	.66492	.92895	.20249-
71	18	.66528	.92946	.20104-
71	19	.66455	.92844	.20394-
<del>71</del>	<del>20</del>	<del>.71804</del>	<del>1.90316</del>	<del>.00902-</del>
<del>71</del>	<del>21</del>	<del>.69986</del>	<del>.97749</del>	<del>.06414-</del>
71	81	.69428	.96958	.08557-
71	82	.73109	1.02140	.06100
71	83	.82366	1.15073	.42959
71	84	.66258	.92568	.21181-
71	85	.71615	1.00053	.00150
71	86	.73219	1.02293	.06535

# NAVORD Report 6697

72	1	.86345	1.10047	.40004
72	2	.86781	1.10602	.42213
72	3	.86781	1.10602	.42213
72	4	.86599	1.10371	.41293
72	5	.84096	1.07190	.28587
72	6	.78725	1.00335	.01335
72	7	.71177	.90716	.36966-
72	8	.54519	.82229	.70735-
72	9	.59057	.75269	.98468-
72	10	.74868	1.01143	.04557
72	11	.61906	.78097	.84013-
72	12	.60810	1.003018	.12015-
72	13	.73935	.94210	.22972-
72	14	.74498	.94947	.20117-
72	15	.84131	1.04752	.18940-
72	16	.74734	.95248	.18921-
72	17	.74770	.95274	.18736-
72	18	.74879	.95433	.18184-
72	19	.74806	.95340	.18552-
72	20	.73487	1.01208	.05202
72	21	.77254	.98468	.04123
72	21	.77949	.99146	.02603-
72	22	.79548	1.01385	.05513
72	23	.86582	1.10549	.41203
72	24	.76514	.94968	.20034-
72	25	.78640	1.00226	.00901
72	26	.79712	1.01593	.06343

# NAVORD Report 6699

73	1	.89710	1.07060	.38926
73	2	.89872	1.07254	.39999
73	3	.90018	1.07427	.40953
73	4	.89782	1.07146	.39403
73	5	.87680	1.04638	.25572
73	6	.83495	.99643	.01970-
73	7	.77660	.92680	.40363-
73	8	.72786	.86863	.72436-
73	9	.69108	.82473	.96640-
<del>73</del>	<del>10</del>	<del>.84618</del>	<del>1.00303</del>	<del>.05422</del>
73	11	.70847	.84549	.85194-
<del>73</del>	<del>12</del>	<del>.83470</del>	<del>1.02000</del>	<del>.11028</del>
73	13	.80215	.95729	.23551-
73	14	.80704	.96313	.20332-
<del>73</del>	<del>15</del>	<del>.86557</del>	<del>1.03297</del>	<del>.18180</del>
73	16	.80940	.96594	.18782-
73	17	.80922	.96572	.18901-
73	18	.81085	.96767	.17828-
73	19	.81012	.96680	.18305-
<del>73</del>	<del>20</del>	<del>.84600</del>	<del>1.00962</del>	<del>.05303</del>
<del>73</del>	<del>21</del>	<del>.83223</del>	<del>.99918</del>	<del>.03759</del>
73	81	.83599	.99767	.01283-
73	82	.84507	1.00850	.04689
73	83	.89734	1.07088	.39083
73	84	.80786	.96410	.19795-
73	85	.83980	1.00222	.01225
73	86	.84725	1.01110	.06122

NAVORD Report 6699

74	1	.72630	1.04335	.36485
74	2	.92920	1.04437	.37341
74	3	.92902	1.04417	.37170
74	4	.92902	1.04417	.37170
74	5	.91581	1.02932	.24675
74	6	.88758	.99759	.02027-
74	7	.84958	.95488	.37973-
74	8	.81647	.91766	.69297-
74	9	.79349	.89183	.91035-
<del>74</del>	<del>10</del>	<del>.89627</del>	<del>1.00755</del>	<del>.55169</del>
74	11	.80344	.90302	.81621-
<del>74</del>	<del>12</del>	<del>.90270</del>	<del>1.01460</del>	<del>.12351</del>
74	13	.86641	.97380	.22054-
74	14	.87076	.97868	.17946-
<del>74</del>	<del>15</del>	<del>.90312</del>	<del>1.02179</del>	<del>.18942</del>
74	16	.87275	.98091	.16063-
74	17	.87437	.98274	.14523-
74	18	.87419	.98254	.14694-
74	19	.87383	.98213	.15036-
<del>74</del>	<del>20</del>	<del>.89699</del>	<del>1.00817</del>	<del>.06679</del>
<del>74</del>	<del>21</del>	<del>.88795</del>	<del>.99800</del>	<del>.61685</del>
74	81	.89234	1.00294	.02474
74	82	.89706	1.00824	.06932
74	83	.93149	1.04694	.39509
74	84	.87295	.98114	.15872-
74	85	.89361	1.00437	.03674
74	86	.89941	1.01089	.09161

NAVORD Report 6699

75	1	.92794	1.04295	.36143
75	2	.93011	1.04539	.38197
75	3	.93083	1.04620	.38882
75	4	.92848	1.04356	.36657
75	5	.91527	1.02871	.24161
75	6	.88722	.99718	.02370-
75	7	.84886	.95407	.38658-
75	8	.81665	.91787	.69126-
75	9	.79331	.89163	.91206-
<del>75</del>	<del>10</del>	<del>.87645</del>	<del>1.00796</del>	<del>.00960-</del>
75	11	.80308	.90261	.81963-
<del>75</del>	<del>12</del>	<del>.90315</del>	<del>1.01508</del>	<del>.12693-</del>
75	13	.85605	.97339	.22397-
75	14	.87057	.97847	.18117-
<del>75</del>	<del>15</del>	<del>.90694</del>	<del>1.02159</del>	<del>.10170-</del>
75	16	.87220	.98030	.16577-
75	17	.87220	.98030	.16577-
75	18	.87347	.98173	.15379-
75	19	.87275	.98091	.16063-
<del>75</del>	<del>20</del>	<del>.89553</del>	<del>1.00654</del>	<del>.05504-</del>
<del>75</del>	<del>21</del>	<del>.80559</del>	<del>.99535</del>	<del>.03910-</del>
75	81	.89234	1.00294	.02474
75	82	.89760	1.00865	.07446
<del>75</del>	<del>83</del>	<del>.00000</del>	<del>.00000</del>	<del>.00000-</del>
75	84	.87331	.98155	.15520-
75	85	.89289	1.00355	.02988
75	86	.89905	1.01048	.08818

# NAVORD Report 6699

77	1	.69076	1.06887	.14812
77	2	.69076	1.06887	.14812
77	3	.60004	.92850	.15378-
77	4	.48565	.75148	.53450-
77	5	.37471	.57982	.90370-
77	6	.40130	.62007	.81519-
77	7	.49403	.76445	.50661-
77	8	.53155	.82251	.38173-
77	9	.54121	.83745	.34960-
77	10	.54412	.84196	.33990-
77	11	.54612	.84506	.33323-
77	81	.58007	.89759	.22025-
77	82	.65616	1.01533	.03297
77	83	.75926	1.17486	.37608
77	84	.59503	.92074	.17046-
77	85	.64321	.99529	.01014-
77	86	.66054	1.02211	.04755

# NAVORD Report 6699

78	1	.80027	1.12617	.35158
78	2	.73077	1.02837	.07906
78	3	.64272	.90447	.26622-
78	4	.53830	.75752	.67570-
78	5	.43825	.61672	1.06806-
78	6	.44570	.62721	1.03881-
78	7	.54994	.77390	.63004-
78	8	.63417	.89243	.29974-
76	9	.64491	.90754	.25765-
78	10	.64727	.91087	.24838-
78	11	.64800	.91189	.24553-
78	81	.68025	.95728	.11905-
78	82	.71652	1.00831	.02315
78	83	.79578	1.11986	.33400
78	84	.69465	.97754	.06260-
78	85	.70941	.99831	.00472-
78	86	.72435	1.01934	.05388

NAVORD Report 6699

79	1	.84862	1.07903	.31785
79	2	.79012	1.00465	.01870
79	3	.72108	.91687	.33434-
79	4	.64459	.81961	.72547-
79	5	.58882	.74869	1.01068-
79	6	.59318	.75424	.98839-
79	7	.63842	.81176	.75705-
79	8	.72671	.92402	.30554-
79	9	.74361	.94551	.21914-
79	10	.74452	.94667	.21449-
79	11	.74597	.94851	.20706-
79	81	.77653	.98737	.05080-
79	82	.78945	1.00380	.01527
79	83	.84695	1.07692	.30934
79	84	.78817	1.00218	.00876
79	85	.78672	1.00033	.00131
79	86	.79582	1.01190	.04784



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NAVORD Report 6695

80	1	.58260	1.05473	.29941
80	2	.83694	1.00016	.00088
80	3	.78512	.95823	.33793-
80	4	.73022	.87262	.69688-
80	5	.69362	.82888	.93618-
80	6	.69416	.82953	.93263-
80	7	.72351	.86461	.74072-
80	8	.79019	.94430	.30476-
80	9	.80632	.96357	.19933-
80	10	.80795	.96552	.18867-
80	11	.80795	.96552	.18867-
80	31	.83273	.99512	.02660-
80	82	.83309	.99556	.02431-
80	83	.87429	1.04479	.24506
80	84	.83545	.99838	.00888-
80	85	.83018	.99209	.04330-
80	86	.83672	.99989	.00058-

# NAVORD Report 6699

81	1	.91961	1.03418	.28625
81	2	.88975	1.00060	.00503
81	3	.85574	.96234	.31538-
81	4	.82027	.92246	.64943-
81	5	.79873	.89824	.85225-
81	6	.79747	.89682	.86418-
81	7	.81520	.91676	.69715-
81	8	.85682	.96356	.30516-
81	9	.87130	.97984	.16881-
81	10	.87238	.98107	.15858-
81	11	.87293	.98168	.15347-
81	81	.86727	.99780	.01840-
81	82	.89162	1.00270	.02257
81	83	.91989	1.03449	.28890
81	84	.89488	1.00636	.05330
81	85	.88926	1.00005	.00038
81	86	.89561	1.00716	.06013

NAVORD Report 6699

82	1	.91762	1.03194	.26750
82	2	.88776	.99836	.01371-
82	3	.85483	.96133	.32390-
82	4	.81900	.92103	.66136-
82	5	.79674	.89600	.87100-
82	6	.79620	.89539	.87611-
82	7	.81375	.91513	.71079-
82	8	.85646	.96316	.30857-
82	9	.87039	.97883	.17733-
82	10	.87130	.97984	.16881-
82	11	.87256	.98127	.15688-
82	81	.88908	.99984	.00133-
82	82	.89325	1.00453	.03794
82	83	.91989	1.03449	.29890
82	84	.89597	1.00759	.06355
82	85	.89089	1.00188	.01575
82	86	.89687	1.00861	.07203